

**Heterodoxy on Geophysics and Celestial Movement (Paper Collection)**

Guo Xuannian

Zhuzhou Water Conservancy Bureau, Zhuzhou, Hunan 412007, China

268 Songshan Road, Zhuzhou, Hunan 412007, China

Phone: 13873300270, Email: [xuannian@126.com](mailto:xuannian@126.com)

**Abstract:** This is a paper collection on Guo Xuannian on the topic of Heterodoxy on Geophysics and Celestial Movement. Guo Xuannian, born in December 1948, in Liling, Hunan, China. He proposed different opinions on part of the geophysics and celestial movements in 1967. After retirement, he wrote the book Heterodoxy on Geophysics and Celestial Movement, publicly throwing down his challenge to Copernicus's heliocentric theory, the first law of Kepler and Newton's three laws on mechanics.

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**Proposal of A New Theory on Celestial Movement  
Due to Lack of Theoretical Evidence and Model  
Experiment for Heliocentric Theory, Kepler's Law  
and Law of Universal Gravitation (Paper 1)**

Guo Xuannian, Water Conservancy Bureau, Zhuzhou,  
Hunan, China

**Abstract:** The heliocentric theory, which derives from Copernicus's suppositions and speculations, lacks theoretical evidence and model experiment and is self contradictory. Astrophysicists like Kepler and Newton failed to verify its correctness and even defended for it, thus covering up the truth on celestial movement.

**Key words:** The heliocentric theory, Kepler's law and the law of universal gravitation are wrong. Planets don't revolve around the sun, and the sun isn't at the focus of the elliptical trajectories of all planets. The attraction among objects and celestial bodies has an effective distance whose extremum is zero. Celestial mechanics is different from material mechanics on earth. Celestial bodies rotating at constant speed has individual circular trajectory without revolving around each other.

It's understandable for the suppositions and speculations among human beings due to their limited knowledge in a time of backward productivity and science and technology. With the development of science and technology, later generations should prove and address doubts about these suppositions and speculations, without which science and technology would become superstition and thus prohibit the advancement of human beings.

The geocentric theory is based on the phenomenon of the rise and fall of the sun and the moon. Since people at that time didn't know the size of the sun and the earth, this illusion that the sun and the moon revolve around the earth is understandable. In 140 B.C., Ptolemy established the geocentric theory in his book *The Almagest*. Since ancient people could only recognize superficial phenomena, the geocentric theory could stand for over 1400 years without anyone doubting about it.

Copernicus (1473~1543) had doubted a lot about Ptolemy's theory long ago. He thought this system was too complicated that lots of small circles had to be added to observe celestial movement, thus making the whole system clumsy and impractical. Succinct scientific theories are normally more accurate than complex ones, thus Copernicus wanted to explore out a way to eliminate such complexity.

Copernicus had superiority than Ptolemy: His measurements were more accurate, and he finally came to the conclusion – earth is not the center of the

universe. Many unnecessary complexities would disappear by supposing the earth revolves around the sun like other planets. Therefore, he proposed the heliocentric theory to replace the geocentric theory.

As with the geocentric theory, there're also suppositions and speculations in the heliocentric theory, which was proposed only to make easier the drawing of celestial movement. Actually celestial movement is not only limited to these two theories. Copernicus failed to explore other forms of movement. Three problems should be resolved to establish the heliocentric theory. First, why could celestial bodies rotate at constant speed and where does this force come from? Second, why do planets revolve around the sun? Third, how is the force along the tangent for planetary revolution generated? Copernicus and modern astrophysicists all failed to find the answer to these questions and only explain by the law of universal gravitation with so many suspicious places, could we say the heliocentric theory is correct?

We could prove the heliocentric theory wrong by observing the North Star. Till now astrophysicists have failed to give the extreme distance of sunlight. Suppose it could transmit by 5 billion kilometers, there would be a lightless tunnel similar to a circular section at the night side of the earth. Some people are limited by the lightless tunnel but people on the North Hemisphere could see the North Star, thus proving the earth doesn't revolve around the sun. We can also prove it by model experiment and drawing.

In 1546, the Denmark physicist Tycho was born. His astronomical apparatus was the best at that time, and plus his diligence and carefulness, he got excellent results. He measured the positions of 777 stars and compiled a table of stars. It was said that his error was always less than 1 or 2 arc minutes. At that time he worked with apparatus without lens, thus we can see he's a really talented astronomer. He compiled the star table and measured the visual movement of planets, which proved to be quite useful for later research but misled people's understanding of celestial movement.

He found a young man called Kepler to work with him, who made full use of his observation results. Kepler easily proved that the earth revolves around the sun in his convincing heliocentric theory. Limited by the heliocentric theory, the trajectory calculated was at least 8' different from Tycho's observation. The recognized error at that time was 2'. To meet Tycho's observation result, he proposed that the earth revolves around the sun in an elliptical trajectory. Thus this is also another supposition and calculation game of Kepler's and we should not take it for real.

Kepler supposed an elliptical trajectory for planets and proposed three laws in his own fantasy:

The first law asserts that each planet revolves

around the earth in a elliptical trajectory, the sun is at one focus of the ellipse and there isn't any celestial body at the other focus.

The second law asserts that the radius vector covers up the equal area in the same period of time, in which radius vector is connected between the sun's center and the planet's center through a supposed line.

The third law asserts that the square of the star period of any planet (time needed to revolve around the sun for one circle) is proportional to cubic of its average distance to the sun.

If the heliocentric theory were wrong, these three laws would also be denied. How should he propose these laws if he didn't find the reason for planetary revolution around the sun, prove it through model experiment or whether the sun rotates or revolves? Astrophysicists shall prove by modern science and technology.

Through analyzing the first law, we could deduce that the focus is the same for all elliptical trajectories. However, the fact shows that this law is completely wrong, and so is the same with the 2<sup>nd</sup> and 3<sup>rd</sup> law.

After the heliocentric theory and Kepler's three laws came into being, many scientists like Galileo, Huygens, Decare, Hook and Harley had doubted about the heliocentric theory and the elliptical trajectories of planets and proposed many suppositions. However, they failed to find a new form of movement to replace the heliocentric theory. Later astrophysicists are misled by the law of universal gravitation and still fail to find the truth about celestial movement.

Newton (1643~1727) has great contributions to mathematics, optics, physics and astronomical mechanics. He found the attraction on earth (celestial body) and published the law of universal gravitation in 1685 ( $F = Gm_1m_2 / r^2$ ), thus addressing the doubt on planetary revolution around the sun (due to centripetal force). Actually this law doesn't completely resolve the issue on celestial movement, such as why the celestial body rotates and revolves. This law has the following defects:

1. Any object or celestial body has attraction, which is a reflection of magnetic field force and has an effective distance, at which point the surface gravitational acceleration is zero. I estimate the effective distance for the moon, earth and sun is respectively 3000km, 30000km and 1 million kilometers. If celestial bodies could attract each other despite of their positions, then it'd be impossible to calculate their mass and attraction. According to  $F = ma$ , celestial body has acceleration after receiving a force and performs Brownian movement then. Since the fact is not so, it proves that gravitation from celestial bodies has an effective distance and the law of universal gravitation breaks the mathematical

rule that its minimum is zero.

2. Physicists have calculated the attraction between the sun and the earth (which is about  $3.56 \times 10^{22} \text{N}$ ) according to the elliptical trajectories and formula of centripetal force. It's due to such big attraction that the earth could stay around the sun without flying away. Thus each square centimeters of projection plane on the earth is subject to a pulling force of 2840kg from the sun. Wouldn't it be a joke if everything on earth is brought away due to such pull? Astrophysicists have calculated that the manmade satellite would fly out of the solar system with a speed faster than 16.7km/s. Since terrestrial planets fail to fly out of the solar system with a speed of 24~46.8km/s, why would astrophysicists neglect this fact? This also proves that planets don't revolve around the sun and their speed is fictitious. How would the galaxy revolve if the satellite revolves around the planet, the planet around the sun, and the solar system around the galaxy? Celestial movement would become superstition if we keep deducing like this.

3. Newton thought it the work of God for the rotation and revolution of celestial bodies. So he also believed in superstition besides being a scientist, and his achievements remain to be examined. In order to cover up the flaws in heliocentric theory and the law of universal gravitation, he integrated celestial mechanics and material mechanics on earth. In fact he confused these two concepts. As attracting resistance is not discussed here (demonstrated in paper II), there's no universal magnetic field in the space, celestial body would have mass without weight, thus able to rotate without a fulcrum. Objects on earth won't rotate due to influence from magnetic field, as well as friction and air resistance when moving on the ground. There two have essential differences and thus couldn't be integrated. The wrong integration by Newton misled many later astrophysicists.

Without considering the rotation and revolution of celestial bodies, the centripetal force  $F = m \frac{v^2}{r}$

for circular movement would be correct. However, due to gravity on earth, objects have different centripetal force, which is

$$F = \sqrt{\left(m \frac{v^2}{r}\right)^2 + (mg)^2} \quad . \quad \text{Set } m=1,$$

then  $F = \sqrt{\left(\frac{v^2}{r}\right)^2 + g^2}$  . However, misled by

Newton, astrophysicists take the centripetal force the same for celestial bodies and objects on earth. In a word, there're too many doubts on heliocentric theory,

Kepler's law and the law of universal gravitation. We should seek truth from facts to develop astrophysics.

In 1967, the Chinese people Guo Xuannian was forced back to the countryside to study the movement of celestial bodies and objects on earth due to the Cultural Revolution. Finally he found the electric current inside the elliptical celestial bodies under high pressure and temperature, which further leads to rotation and displacement (revolution). The displacement speed is far smaller than the equatorial linear speed of celestial bodies (demonstrated in paper III). Thus he proposed that any celestial body rotating at constant speed could displace in a circular trajectory, namely celestial bodies are constantly performing individual circular movements without revolving around each other.

From the drawing, we could see that there's a shortest distance as well as a longest distance between the sun and the earth. The heliocentric theory misled Kepler to take the shortest distance as the semi-minor axis of the elliptical trajectory, and the longest distance as the semi-major axis. Addition of these two axes is the major axis of the elliptical trajectory. After recognizing that no planet revolves around the other (which can also be proven by attracting resistance), we can see the elliptical trajectory also doesn't exist. Thus the diameter of the earth's displacement circle can be calculated as around 785000km. If the earth revolves around the sun, elliptical trajectory diameter would be 300 million kilometers, thus mistakenly enlarging it by 382 times and increasing the displacement speed from 0.07815km/s to 29.8km/s.

Model experiment is used to prove the correctness of this new theory. The current mechanical gyroscopes in the market are spring-type that could rotate for about 1 minute. Due to influence from geomagnetic field like gravity, fulcrum friction (including attracting resistance) and air resistance, the gyroscope could only moves with constant deceleration. Its first trajectory is similar to a circle, which turns to spirals later. This proves that the sun is not at the focus of all elliptical trajectories of planets. The sun would displace so long as it revolves. It also proves that celestial revolution contains the centripetal force for circular movement. Modern science and technology could also prove this new theory by putting a ball rotating at constant speed in the space lab, and thus the heliocentric theory, Kepler's laws and the law of universal gravitation would be wrong.

In a time of autocracy and war, scientific research projects were mostly related to money and power. A scientific research project, no matter right or wrong, once approved by the world, would have a number of beneficiaries who would suppress any doubt about it. So people engaged in scientific research project or even innovation shall be courageous and dedicated

without beings suppressed by conservative power. Copernicus's book *On the Revolutions*, although published in 1543, it was recognized only until 1600 when the publisher Bruno was burnt to death and thus raised the worldwide attention on it. Guo Xuannian raised his new theory in 1967, yet during his 46 years of propaganda he met only with teasing. But he firmly believes that it could be proved by conducting experiment in the space or launching a solar satellite to observe the solar system. Due to our natural conservative mindset and disadvantage of adhering to wrong opinions, those who dare to correct are thus called the sage. It's still unknown how long it would take for the astrophysics field to accept the new theory on celestial movement and deny the heliocentric theory, Kepler's laws and the law of universal gravitation.

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### **Astrophysicists Have Ignored the Attracting Resistance (Paper 2)**

Guo Xuannian, Water Conservancy Bureau, Zhuzhou, Hunan, China

**Abstract:** Magnetic field is generated by electrons revolving around the nucleus, and magnetic field force further generates attraction in any object and celestial bodies. Attraction includes attracting motivation and attracting resistance, which correspond to the pros and cons in philosophy. As attracting resistance exists, planets don't revolve around the sun and satellites don't revolve around planets, thus proving that the heliocentric theory and Kepler's first law are wrong and the law of universal gravitation is incomplete. Therefore, we should restudy the movement of celestial bodies and objects on earth so as to find the truth.

**Key words:** The existence of attracting resistance proves that heliocentric theory is wrong and the celestial mechanics is not the same as mechanics for objects on earth.

Since electrons revolve around the nucleus, magnetic field is generated from atoms, molecules, objects and celestial bodies. Attraction on earth is the reflection of magnetic field force. Attraction on earth, although thousands of years have passed, still fails to be found by us since it's not observable. Newton found attraction on earth based on the evidence of objects, without which we won't believe it. He also found that attraction could generate gravity (motivation), yet he failed to find that attraction is also accompanied by attracting resistance. This is because it's invisible and lacks intuitive evidence, thus attracting resistance was mistakenly included in friction and air resistance.

Any object able to bear pulling force (stress) has

shearing resistance that resists the cutting tool. The gravitational line of the earth is its magnetic force line. Any object moving on the ground or within the scope of gravitation shall cut the magnetic force lines, and such invisible shearing resistance is the attracting resistance. Copernicus, Kepler, Newton and astrophysicists today all made an essential mistake to include the attracting resistance in friction and air resistance. From phenomenon feeling to logical thinking, some invisible things may still exist. Can we tell the spirit doesn't exist if we can't see it?

If Newton found attracting resistance, he wouldn't have proposed the law of universal gravitation and would be the first to object heliocentric theory. If the sun's attraction to planets is the centripetal force for their revolution around the sun, then it'll also generate attracting resistance to resist planetary rotation and revolution, thus being absorbed by the sun at last. However, the fact is not so, so the sun has no attraction to remote planets. Model experiment shows that a moving steel bead would reduce its speed and stroke by cutting magnetic force lines. Objects and celestial bodies are under resistance while cutting the magnetic force lines of another object, thus unable for perpetual movement. Without realizing this, astrophysicists today would not be able to find the truth about celestial movement.

Newton summarized the research results of Galileo and Kepler because he failed to find the attracting resistance, thus deducing the law of universal gravitation and three laws on the movement of objects. Before the birth of Newton, astronomy was the most powerful discipline. Why did planets revolve around the sun in certain rule? As astrophysicists failed to give a good explanation to this and could only side with Newton's law of universal gravitation, mistakenly believing that the same mechanical rule applies both for objects on earth and celestial bodies. Actually they have the same principle for movement but different stress conditions. Nowadays people are still confused about it and fail to realize these wrong theories.

So the law of universal gravitation fails to completely solve the problem of planetary revolution around the sun. It even misled us by applying the same mechanical rule for both objects on earth and celestial bodies. The essential difference is that there's no universal magnetic field for celestial movement and objects on earth are influenced by the geomagnetic field. Celestial bodies have mass but no weight, can rotate and are not influenced by resistances like gravity, gravitation, friction or air. If attraction on earth fails to keep everything on it in a relatively still inertia, then all animals would not be able to survive. So a huge mistake in the history of physics is to integrate celestial mechanics and

mechanics for objects on earth.

Our view on celestial movement is wrong because the geocentric theory is wrong, yet it doesn't mean the heliocentric theory is right, which is also established based on suppositions without evidence by theories and facts. Astrophysicists have wrongly believed in the heliocentric theory and focus on resolving issues related to planetary revolution around the sun, thus producing some wrong theories. No one has ever doubted about why the earth rotates and why its revolution speed is dozens of times faster than its rotary speed at the equator, and Newton also contributed it to the work of God. It's already against science for modern astronomers and physicists to explain celestial movement through superstition. In the time of Copernicus, astrophysicists failed to know the secret for the rotation and revolution of celestial bodies since the atomic theory was not born yet. Today, since we know the sun rotates as well as displaces, it proves that the heliocentric theory and Kepler's laws are wrong, and there're lots of problems if we try to explain using the law of universal gravitation. Astrophysicists should study celestial movement using other methods and never take the heliocentric theory, Kepler's laws and the law of universal gravitation as truth. We should settle down the problems which they failed to in their time.

To prove the heliocentric theory and Kepler's laws right, two doubts shall be resolved: first, the reason for rotation and revolution of celestial bodies; second, there's essential difference between celestial movement and the movement of objects on earth, so we can't mix them. Actually the suppositions in Kepler's laws are due to the rotation and revolution of the sun. However, astronomers refuse to accept this fact yet still try to uphold the wrong theory using Kepler's law. The heliocentric theory and Kepler's laws are based on suppositions and speculations without scientific evidence, thus astrophysicist could never prove their correctness. To deny heliocentric theory and Kepler's laws, we could only prove that attraction is accompanied by attracting motivation and attracting resistance. Till now people don't deny that the attraction could generate attracting motivation, yet they don't admit the existence of attracting resistance, which is mainly because the latter proves that the heliocentric theory, Kepler's laws and the law of universal gravitation are wrong. Astrophysicists are afraid of losing their research results in the past over 400 years.

All resistances for moving objects come from the attraction on earth, without which these resistances would disappear. Gravitation on earth makes all objects have gravity and would fall on the ground at certain height, and cosmic dusts close to the ground would also fly to the earth due to its attraction. This

shows that attraction includes attracting motivation. Since there're pros and cons in philosophy, attracting motivation is always accompanied by attracting resistance, thus all attracting resistance, friction and air resistance come from the attraction on earth. It's an essential mistake for astrophysicists to include the attracting friction in air resistance without admitting its existence. However, once the attracting resistance is revealed, the heliocentric theory, Kepler's laws and the law of universal gravitation would be denied immediately. It's possible that astrophysicists fail to find the reason for the rotation and revolution of celestial bodies and could only uphold the heliocentric theory through Kepler's laws and the law of universal gravitation, thus they don't admit the existence of attracting resistance.

**1. Any celestial body or object has attraction, which is directly proportional to mass and has an effective distance**

From the experiment of current with the same direction, we can find the reason for atoms combined into molecules. A single molecule is composed of over two same or different atoms. Electrons revolving around the nucleus are negative, so current in different atoms is of the same direction. We could consider that current is generated by electrons revolving around the nucleus. Bigger mass of the nucleus means more electrons and stronger current. Thus current of several nuclei would pass the magnetic field of others, and overlapped and combined magnetic fields could produce molecules. Electrons could revolve nonstop, and the magnetic field of molecule is stronger than that of the atom. The combination of molecules is also the result of attraction due to magnetic field force. Materials are formed due to the magnetic field, and its force is the reflection of electric field force, so the magnetic field force is directly proportional to the amount of electrons.

The earth (celestial body) consists of diverse molecules. Any atom or molecule has magnetic field force which is difficult to be detected. However, molecules close enough could attract each other and form materials. Celestial body consists of many materials with strong magnetic field force. Thus the magnetic field force of any material and celestial body is the reflection of electronic movement. Attraction exists in all celestial bodies and materials.

As we know, objects of certain height around the earth (in the air) would fall on the earth with increasing speed, and would not fall if high enough. This proves that the magnetic field force decreases as the height increases. The earth would have no attraction to objects of certain height. This also proves that the magnetic field force is inversely proportional to distance. The attraction of any object has an effective distance, which could be proved by

experiment. This could be proven by experiment: place a steel ball with a diameter of 23.5mm, and the N (or S) pole of bar magnet beside a steel ball by 30mm (horizontal) away. The steel ball would roll towards the pole with increasing speed, and would not by increasing such distance to a certain extent. It proves that attraction is magnetic field force that could generate attracting motivation, and such force decreases as distance increases and would become zero at certain distance. Such distance is called the effective distance. Therefore, the infinite attraction in the law of universal gravitation is wrong. Electrons would not revolve around the nucleus if they're far enough from the nucleus.

**2. Passive objects (celestial bodies) have attraction and would generate attracting resistance (tangent) to actively moving objects**

The reason why attracting resistance is still not admitted is because it would deny heliocentric theory and Kepler's laws and pose doubt on the law of universal gravitation. As a scientist, one shall correct mistakes and reveal the truth. The attracting resistance exists (according to the pros and cons in philosophy), and without admitting its existence, the heliocentric theory and Kepler's laws would not be corrected, thus influencing our understanding and renovation of the universe. Let me give some examples about attracting resistance.

An object falling from the sky would point to the earth's core without any external force. A horizontal (or inclined) force is needed to change its place of landing, and such force is generated by the attracting resistance. A pointer would require bigger force to rotate if placed beside the magnet. Actually it's both about cutting the magnetic line of force, and attracting resistance is the force placed on moving objects cutting the magnetic line of force (horizontal or inclined). If a steel plate able to revolve horizontally around its axis is placed with bar magnets on it with N poles and S poles opposite to each other, we can see that revolution under the same force takes less time compared with the place without magnets on it. This could prove the existence of attracting resistance.

If we take earth as a passive object and draw out its magnetic lines of force, then all moving objects are active on the ground and are cutting the magnetic lines of force. Attracting force is generated for these actively moving objects, which explains that they'd finally stop and keep relatively still with the earth. The attracting resistance is directly proportionally to the magnetic field intensity (namely the mass for objects on earth) and their moving speed, which could be proved by the principle of generator. Turn the pole of generator into stator and conductor into rotor, then the rotor would be cutting magnetic lines of force by revolution. More poles could increasing the rotor's

speed and generate bigger power in the water turbine. So we shall admit the existence of attracting resistance. All moving objects on earth are subject to it.

### 3. Separate the attracting resistance from friction and air resistance

Physicists take celestial mechanics and the mechanics for objects on earth as the same and include the attracting resistance in friction and air resistance, thus covering their essential difference and making a huge mistake. The second law of Newton ( $F=ma$ ) is only suitable for celestial movement, instead of moving objects on earth. For example, by placing a 10kg object in the space and giving a 1N force to it, the combination of attraction, friction and air resistance on earth would be no less than 1N. But the object would still keep still. So can we still say that this law suits celestial movement as well as moving objects on earth?

Newton's second law fails to find that it's not applicable for objects on earth. First, the formula  $F=ma$  doesn't fit moving objects on earth. Second, the

law of kinetic energy ( $E_k = \frac{1}{2} mv^2$ ) helped this

law to cover up the truth. The velocity  $V$  of a moving object is decided by the acting force, mass, attraction, friction, air and other resistances. What Newton neglected is supplemented by the formula of kinetic energy, so problems in his three laws failed to raise our concern. Resistance to objects moving on earth is generated by attraction. It's against the truth and philosophy for physicists not to admit the attracting resistance.

Friction is a cutting force for moving objects generated between two rugged planes. The friction coefficient would not be close to zero (theoretically it is) if two planes are quite smooth, or even more smooth than the ice surface, under the premise that air pressure and resistance are eliminated in the space. This proves that the friction coefficient is only related to the roughness of the two planes instead object's weight. Only the attracting resistance is directly proportional to the weight, and the coefficient of attracting resistance is a constant. Since physicists believe the wrong conclusion that friction includes attracting resistance, they would definitely think the friction coefficient could not be close to zero.

### 4. They theory that planets revolve around the sun and each other in the solar system is wrong

In the time of Copernicus and Kepler when astronomy and physics were still backward, they didn't know the sun's rotation and displacement. Newton's law of universal gravitation is just a speculation and supposition to explain celestial movement and lacks evidence. We could deny their theories, yet we should not criticize their suppositions

and speculations, since these are important in a time of backward science and technology. We should verify these suppositions and speculations through modern scientific and technological measures.

It's a big mistake for astrophysicists today to uphold their theories even after realizing that their suppositions are wrong. Today people still think planets revolve around the sun and the solar system revolves around the galaxy, and so on. Such deduction is like superstition in celestial movement! Now let me talk about two problems for your reference.

1. Is it because of the sun's gravitation for planets to revolve around it?

Modern astrophysicists still fail to revolve the most fundamental problem, namely the reason for planetary rotation and revolution. It's supposed that planetary rotation is generated by internal force and further generates displacement (revolution). For the earth, if the sun really has attraction over the earth, it'll definitely produce attracting resistance and influence its rotation and displacement. The earth would decrease its speed and finally be in a still state. For all moving objects on earth (within the scope of gravitation), without energy supply they'd only keep a relatively still state with the earth at last. Now we should study the source of energy supply and keep the earth under perpetual rotation and displacement. However, such energy supply doesn't exist. This also proves that it's wrong to unite celestial mechanics with that for objects on earth. They are essentially different, yet they have the same attracting resistance.

Suppose planetary rotation and revolution are caused by the sun's gravitation, it's still to be doubted. First, planetary revolution around the sun is like gear engagement, so planets should rotate inversely. However, the fact is that only Venus rotates inversely. Second, even if planetary rotation is caused by the sun's gravitation and it further generates revolution, from the movement of gyroscope we can see that the planetary displacement (revolution) speed is far less than its rotary speed at the equator, yet statistics from modern astrophysicists shows the opposite. Why? This problem is further demonstrated in the 3<sup>rd</sup> paper. In addition, the attraction of any celestial body (object) has an effective distance, as demonstrated below.

2. Attraction of any celestial body (object) has an effective distance

As we know that electromagnet can attract iron within a limited distance, and energized high-tension cable could shock people to death or even attract people near it within certain distance. These show that the attraction of any object has an effective distance. Despite of the different basic conditions between celestial mechanics and mechanics for objects on earth, their principle is the same, namely their attraction has an effective distance.

To launch a manmade satellite, its first cosmic velocity is 7.9km/s at a height of 2500km, 4.963km/s at 10000km, and 1.597km/ at 150000km. Supposing it still keeps a velocity of 7.9km/s at a height of 150000km, it'd definitely fly out of the earth. This shows that the earth's attraction decreases as the distance increases, and would be close to zero upon certain distance. People have failed to realize this because the cosmic velocity is calculated out by the formulas for universal gravitation and centripetal force. Since it's a proportional relation, the cosmic velocity would not be zero and attraction extremum is not zero, which is obviously wrong. This is like the rabbit starting late could never catch up with the tortoise. It's obviously incorrect that there's always a certain distance between them.

From the launch of spacecraft, we can see that spacemen would lose weight at certain height and walk in the space, so they're out of the scope of earth's gravitation. However, according to the law of universal gravitation, they'd be still within the scope of earth's gravitation. Even if there's still weak attraction from the earth, according to F=ma, spacemen would have acceleration by walking in the space and fall to the earth from slow to fast. However, this is not the fact. It proves that attraction from earth is not infinite. So how long is the effective attracting distance of the earth (celestial body)? It should be a distance where the gravitational acceleration of the earth (celestial body) is close to zero. Since the attracting distance from any celestial bodies is limited, planets don't revolve around the sun and the solar system doesn't revolve around the galaxy. The reason for planetary rotation and revolution due to internal force is given in *Revealing the Mystery of Celestial Rotation and Displacement (Revolution)*. We'll be able to re-recognize celestial movement after realizing that no planets revolve around each other.

It's reported that the special docking of Tiangong-1 and Shenzhou-8 required over 1000 tests. I believe it doesn't need so many experiments to prove the heliocentric theory, Kepler's laws and the law of universal gravitation. An original method is to correct theoretical mistake through experiments. However, the number of experiment could be greatly reduced year correcting the mistake in theories, thus saving manpower and material resources. What's doubtful is that the spacecraft is not abandoned by the earth when revolving inversely with a velocity of 7.8km/s and when the earth's revolution velocity is 29.8km/s. If the earth acts as its carrier when it's within the earth's gravitation scope, then why does satellite outside the atmosphere still have speed when synchronizing with the earth? Many problems could be explained if the earth doesn't revolve around the sun and its displacement (revolution) velocity is 0.07815km/s.

Actually we can find that the heliocentric theory, Kepler's laws and the law of universal gravitation are wrong just by the launch of spacecraft.

October 30, 2011

### **Revealing the Mystery on Celestial Rotation and Displacement (Revolution) (Paper 3)**

Guo Xuannian, water conservancy bureau, Zhuzhou, Hunan, China

**Abstract:** Thermal movement is generated due to contraction in celestial bodies, which further generates electric current to enable rotation. Circular movement is achieved through centripetal force due to rotation. Both geocentric and heliocentric theories are wrong since no celestial body revolves around the other. People could only see half of planets in the solar system since they perform circular movement outside the sun's displacement trajectory. Aliens, as said to have visited the earth, come from the other half planets in the solar system. The sun has no attraction to planets beyond its effective distance. People could move planets for their benefit but not change the landscape at will or send nonsymmetrical satellites or spacecrafts, otherwise it'll change the earth's displacement trajectory and bring disaster to us.

**Key words:** Celestial bodies displace due to rotation; heliocentric theory is wrong; another half planets in the solar system haven't been found; UFO come from the other half planets; people can move planets for wellbeing.

According to molecular structure we found that materials consist of molecules. Inside molecules, magnetic field force is generated due to revolution of electrons. Celestial bodies are formed due to the weak magnetic field force of molecules. The earth is a huge celestial body with strong magnetic field force, and its attraction is the reflection of magnetic field force. Any celestial body able to contract into a sphere could rotate and displace with obvious attraction.

The earth's rotation and displacement are most representative. As we live on the earth, we know that its rotary period is 23h56'4'', linear velocity at the equator is 0.46511km/s, and revolution period is about 365.2564 days. According to the first law of Kepler, its revolution speed around the sun is 29.8km/s. According to the formulas of universal gravitation and centripetal force,  $V = \sqrt{Gm/r}$ , thus the revolution speed is 29.8km/s. With the same results, we could see that Kepler's laws and the law of universal gravitation



both drive from the heliocentric theory. As the first cosmic velocity for manmade satellite is 7.9km/s, how could it revolve around the earth? With the sun's revolution speed as 250km/s, while the revolution speed of Mercury is only 46.8km/s, how could planets revolve around the sun? Thus the heliocentric theory and Kepler's laws are superstitious. In particular, how is the earth's revolution speed 64 times faster than its linear speed at the equator? What is this force to make the earth move so fast?

The toy gyroscope could rotate automatically by winding it on the top, and we call this mechanical gyroscope, which could rotate for 1min on smooth plane. Despite of its many differences with celestial bodies as for rotation such as gravity, attraction, friction, etc., we can prove this problem according to their common features. The gyroscope has a diameter of 15-20cm in its displacement circle when rotating inclined and 5-10cm when rotating vertically. This proves that rotating celestial body doesn't need the sun's gravitation as the centripetal force, which could be generated by its own rotation. Facts show that its displacement speed is far less than its linear speed at the equator, no matter fast or slow the rotary speed is. According to the heliocentric theory and Kepler's first law, the revolution speed is dozens of times bigger than the linear speed at the equator. People failed to see the truth about planet's revolution, despite of the truth on the revolution of gyroscope. So we should never deny facts by superstition.

With aforesaid analysis, what is the celestial movement? From the revolution of gyroscope, celestial bodies rotate due to internal force and further perform circular movement, so that planets perform circular movement outside the sun's displacement trajectory. So is the same for satellites. According to the relation between earth and moon, the earth's linear speed at the equator is about 0.46511km/s, diameter of displacement circle is 785032 km, and displacement (revolution) speed is only 0.07815km/s. Since the sun's linear speed at the equator for rotation is about 1.446km/s, its diameter of displacement circle is about 2441450km, and displacement (revolution) speed is 0.243km/s, so the sun's revolution speed is not 250km/s. Since these basic data are only approximate value, they can only serve as reference. Despite of the same principle for celestial movement and the gyroscope's movement, the results are yet so different.

To prove that planets move outside the sun's movement trajectory, two problems shall be resolved. First, why do celestial bodies rotate and some axes are inclined? Second, it's about the centripetal force generated by rotation to make it perform circular displacement. We should start from the earth's structure to find the reason for rotation and revolution

instead of contributing it to the work of God. As we know that material consists of molecules which further consist of over two atoms with electrons revolving around it, it's against the law of energy conservation for electrons to revolve around the nucleus permanently. Electron revolution could generate the geomagnetic field of celestial body and enable rotation and displacement.

Thermal movement is caused by frictional electricity. So it could generate current. Any celestial body (with certain mass) that contracts into a sphere due to its own gravitation could generate high temperature and thermal movement due to gravitation inside. For example, the earth's core with a diameter of 6800km (rock and metal) and a temperature of 4000~6000°C is melted, so it's a liquid (magma) ball. Molecular movement is increased under high temperature and pressure, and electric current is formed with electrons revolving at high speed. The mantle is about 2900km thin with an average temperature of 2000°C, so it could generate current as well. The crust is 10-40km thick and still has weak electric current, which is difficult to be detected since the earth is a conductor. With currents of different intensity inside the earth, according to the right hand law, its direction could be determined long the four other fingers except thumb by holding a globe and pointing the thumb to the north (the positive pole of the geomagnetic field is at north). Take the radius of each section of the earth as arm of force, thus moment is generated under the current. Since the earth is similar to a sphere, it could form couple and make the earth rotate. It could only rotate from west to east since the current is along this direction, which meets the practical condition. The core, mantle and crust have different intensities of current and their combined force make the earth rotate. Since current is constant and permanent, the earth could permanently rotate at constant speed, which explains why all celestial bodies could rotate and displace. Celestial bodies which can't contract into sphere could not rotate at constant speed or displace regularly. Their cases should be studied individually before reaching any conclusion.

The earth is an approximate sphere and heterogeneous. Its low-lying areas are filled by water, whose specific gravity is smaller than that of the solid material and magma. The land is higher than the sea level, and some mountains are even thousands of meters high. Thus its radius is not the same and moment is not balanced. Thus it's inclined to some extent so as to reach balance, which could also be proved by calculation through computer. Astrophysicists think that the inclination of the earth's axis is caused by collision of the moon, which further generated four seasons, plants, animals and the people.

This is totally nonsense suppositions and speculation from the heliocentric theory and Kepler's laws.

This can be proved by model experiment. Since the earth's displacement is caused by rotation, it could still generate centripetal force even if without inclination. In this way, its displacement speed would be far less than the rotary linear speed at the equator and displacement trajectory is a circle, and the diameter is about 61 times larger than the current diameter. Due to small displacement diameter, the sun could not revolve around the galaxy, planets couldn't revolve around the sun, and satellites couldn't revolve around the planets. Planets and satellites could only perform circular movement outside the sun's movement trajectory. Satellites are small planets close to big planets. Some small trajectories are included by large trajectories, such as the moon's displacement trajectory is included by the earth's.

Newton failed to find the reason for earth's rotation and revolution since he didn't know electrons revolve around nucleus. After his death for over 280 years, nobody has found the reason and people still mistakenly believe in the heliocentric theory, Kepler's laws and the law of universal gravitation. To recognize these theories, we should at least find the reason for earth's rotation and revolution. After I raised my new opinion, I didn't expect someone would say to me that "the heliocentric theory, Kepler's laws and the law of universal gravitation are undeniable truth for several hundreds of years". This people failed to notice so many problems and doubts in the suppositions and speculations in these theories. If they're universally recognized, why was the geocentric theory overthrown since it was also universally recognized before? Why was the Soviet Union disintegrated although it was first established with the truth of uniformity? The truth needs to be tested and challenged by different opinions. How could we believe the heliocentric theory and Kepler's laws and revolution speed is dozens of times faster than the rotary speed at the equator if we don't know the reason for its rotation and revolution? Where is the evidence that planets revolve around the sun? Isn't it self-contradictory for slower celestial bodies to revolve around faster ones?

The solid evidence to deny the heliocentric theory and Kepler's laws and correct the law of universal gravitation is my proposal that attraction is accompanied by attracting resistance and has an effective distance. Besides, there're 5 kinds of data and natural phenomenon to prove that the planets don't revolve around the sun in the following.

1. The manmade satellite would fly out of the solar system when its speed reaches 16.7km/s. The earth's revolution speed is 29.8km/s, which is much faster than the third cosmic speed. So why doesn't the

earth fly out of the solar system. Such contradiction proves that the earth's revolution trajectory is wrong. If the earth doesn't revolve around the sun and its displacement speed as 0.07815km/s, above doubted would be easily addressed.

2. For object on earth, their gravitation is the difference between the earth's and sun's gravitation in the day, and is the sum at night, so the weight is different at different time by at least 1 thousandth. Since no one has raised such difference, it proves that the earth doesn't revolve around the sun and the sun has no attraction to the earth.

3. The surface temperature of planets is mainly determined by the distance between the planet and the sun. Shorter distance means higher temperature, and vice versa. Scientists only emphasize the inclined axis in their explanation for the formation of four seasons and change of temperature, and deny the distance, which is unreasonable. This is because astrophysicists still believe the earth revolves around the sun.

4. In the launch of spacecraft, spacemen would lose weight after being less than 3000km from the ground, and a space station has been established by 4000km above the ground. This proves that the spacemen and materials are not subject to the sun's gravitation, otherwise they wouldn't lose weight. Gravity exists due to gravitation, and according to  $F=ma$ , people and materials would fly to the earth or sun from slow to fast. This proves that gravitation has an effective distance and there's no attraction between the sun and the earth.

5. The reason why people on earth could see the similar horoscope in four seasons is because of the rotation and displacement of the earth and stars (close). If the earth revolves around the sun, the four seasons would be opposite at different directions, and the horoscope would be different. Scientists explain that people could see the North Star every night because it's far away from the earth (400 light years), and it's due to special arrangement. Through drawing, we could see that it couldn't be seen by half of the time if the earth revolves around the sun. However, the fact proves that the earth (planets) doesn't revolve around the sun. So the heliocentric theory and Kepler's laws shall be denied, and the law of universal gravitation shall be corrected. The evidence is that the universal gravitational constant  $G$  shall be re-calculated by doing experiment in space, and the attenuation coefficient  $e$  shall be calculated since the gravitation has an effective distance. So the formula would be:

$$F = (G - re) m_1 m_2 / r^2$$

In this formula:

1. The signs are of the same meaning as in the original formula.

2.  $e$ -attenuation coefficient of gravitation,  $e = G/r$

When  $G = re$ , the mutual attraction between two

celestial bodies (objects) is zero.

People would change their cosmology after knowing that the satellites don't revolve around planets, planets don't revolve around the sun, etc. It's wrong to contribute the inclination of axis to the collision of moon. Newton thought planets would not be absorbed to the sun because of their moving speed. Thus the moon also has moving speed since it's not attracted to the earth. So why would it collide with the earth? Suppose it did collide, how did they divide? Therefore this theory could be proven wrong by its own suppositions. Now the moon leaves the earth at a speed of 3.8cm a year, which proves that it's under impact from other cosmic beings that produced small acceleration. Although subject to impacts from all directions, these impacts don't offset each other, so it'd move away from the earth. This also proves that the earth doesn't attract the moon. It's also possible that there're changes in the displacement circles of the moon and the earth.

Therefore, celestial movement is individual. The sun has no attraction to planets, and we should not change the earth's appearance in order to avoid disaster. We should also realize that nonsymmetrical rockets, manmade satellites and spacecrafts launched on earth could generate small acceleration and displacement speed to the earth. Without due attention, it'll change its original trajectory and experience many problems. Science is to serve the people, yet we should prevent it from destroying the mankind and the earth.

Since the earth doesn't revolve around the sun, there's another half of planets and satellites to be found. In past decades, UFO and USO had raised great attention, which is hard to tell if it's true since some people intentionally make false news. According to the opinions in this paper, aliens may have come to the earth, since the Cetus closest to the earth is 12 light years away and aliens also come from the solar system. They live in the southwest planets which couldn't be seen by people. They're about 150 million km away from the sun, and aliens would travel over 300 million km to come to the earth. If their aircraft reaches a speed of 10000km per second, it only takes them 8-9 hours to get here. This also proves that their aerospace technology is advanced than us by over 1000 years.

I want to give some different opinions on aliens, since some people are afraid of them. According to description, their aircraft looks different than ours, so maybe they've known the reason for celestial rotation and movement and designed their aircraft according to celestial movement method. The drum-like part of the aircraft doesn't rotate. It's the annular blades that rotate at high speed. The motivation is the high-intensity current. Since the lightning could give

out brilliant light due to high current intensity, the UFO is also designed in this way. We don't need to worry about their invasion. Their science and technologies are much developed than ours and they have passed the stage of developing adjacent planets. Maybe they wanted to advance our science and technologies to a great extent. Highly civilized being would not bring disaster to us.

Since the sun has no attraction to planets (planets and sun couldn't attract at any distance), people could move terrestrial planets for wellbeing since they have similar specific gravity and are suitable for our survival by changing their natural conditions. The first choice would be Venus and Mars. By changing their distance with the sun, we could create natural conditions similar on earth. The details are: draw a circle with the sun's trajectory center as the center of the circle and a radius of 150 million km, so this circular trajectory is the life zone. We can move some planets here without any influence to each other. For example, move the trajectory centers of Venus and Mars to the life zone and their climate would be similar to the earth, thus suitable for the survival of planets, animals and people. After moving the Venus, the decrease in surface temperature would collect air and steam on the surface layer since its average distance to the sun is 40 million km more. For the Mars, since its average distance to the sun is 70 million km less, the solidified ice and air mass would change into water and air around its surface. If these resources are insufficient, we could develop resources on the jovian planets due to their small specific gravity and composition of water and air. Or we can move a small satellite here (small planet) to add water and air to Venus and Mars.

Next, we could add driving force  $F$  to planets using nuclear energy, and then add braking force  $F'$ . According to  $F=ma$ , it's only suitable for celestial movement. Acceleration is generated by adding an acting force  $F$ , and when  $F$  disappears, it could still keep moving at constant speed. When the planet is about to be in position, add an appropriate braking force (reactive force)  $F'$  to reduce its speed to zero. Planet could still be moved to designated area by reducing the acting force and extending the time of acting. With a constant moving speed of 1m/s, Venus and Mars only need 1.27 years and 2.22 years respectively to enter designated position. Despite of the long distance for Mars, its mass is small and is thus to be moved first. In this way, they could be moved within 200 years. China should seize the chance to move Mars first.

Despite manmade satellites could be used to explore other planets, it's still the result of  $F=ma$  applied in celestial movement. We can't ignore other problems due to this. Our understanding to celestial

movement is still quite superficial, and we need to discriminate truth from the false. We should give full play to our imagination and study the loopholes in past theories and express new opinions. Those at the frontier of political mindset would be isolated or even persecuted by authority, and those raising different theories in science may also be criticized. However, people in pursuit of truth won't care about it, because truth shall endure challenge of diverse opinions and the test of time. Now I dare to pose my opinions to society and the science field to welcome doubts and criticism, and expect supporters to join me in the fight for truth.

November 8, 2011

### **Doubts on Cavendish's Experiment and Proving the Extremum of Zero in the Law of Universal Gravitation(Paper 4)**

Guo Xuannian, water conservancy bureau, Zhuzhou, Hunan, China

**Abstract:** Objects on the ground are subject to gravity and friction due to geomagnetic field, while celestial bodies have no gravity or cosmic magnetic field. Mechanics for objects on earth and celestial mechanics have essential difference and thus couldn't be unified. Newton's three laws are only suitable for celestial movement and couldn't be proved by objects moving on the earth. It's wrong to putting the gravitational constant G calculated by Cavendish to calculate the mass of celestial bodies. G is inversely proportionally to distance and is a variable. Given the decreasing proportion e, when  $G=re$ , mutual attraction between two objects (celestial bodies) is zero.

**Key words:** Mechanics for objects on earth is different from celestial mechanics; Cavendish's experiment is influenced by geomagnetic force; G is a variable.

During the mid 16<sup>th</sup>, Copernicus raised the heliocentric theory and denied geocentric theory and was recognized by the astrophysics field. Actually Ptolemy's geocentric theory is also based on natural phenomenon that the sun rises from the east and sets at the west. However, the heliocentric theory is without evidence. Copernicus added lots of small circles (epicycles) to explain celestial movement and made the whole system extremely clumsy and impractical. History proves that truth shall be based on facts and proved by theories with model experiments. Since geocentric theory is wrong, how is the heliocentric theory right despite of its complex drawing and observation? There remain too many questions to be addressed to prove the correctness of

heliocentric theory. Superstition still exists in theories like the satellite revolves around the planet, planet revolves around the sun, and the solar system revolves around the galaxy.

The heliocentric theory is only one step ahead of the geocentric theory. It's still unknown why the earth (planets) rotate and revolve around the sun and why the revolution speed is faster than the rotary speed at the equator, etc. According to Paper II, attraction is always accompanied by attracting resistance, so who does the earth (planets) overcome the sun's attracting resistance? In general, both heliocentric theory and geocentric theory have problems. The Roman catholic church only tried to maintain that the earth was the center of the universe using such old superstition as geocentric theory, while such new superstition as heliocentric theory would normally win due to its innovation and charm. The heliocentric theory has been proposed for over 400 years without anyone doubting about it and is still considered as truth. Galileo, Kepler, Huygens and other astrophysicists speculated a mysterious material to make planets move around the sun in order to uphold the heliocentric theory, and this is merely superstition. Newton, by combing others' speculations, proposed the laws of universal gravitation:

$$F=Gm_1m_2/r^2 \quad (1)$$

In this formula, F— gravitation, unit is N

$m_1, m_2$ — mass of two celestial bodies, unit is kg

r— distance between  $m_1$  and  $m_2$ , unit is m

G – gravitation constant, not calculated by Newton

Without the value of G, this law has no practical value but it yet confused astrophysicists without anyone doubting about the heliocentric theory hence. Newton didn't give the value of G and also revealed some problems in this law. First, is G a constant? Second, since magnetic field and attraction are generated by electrons revolving around the nucleus, any object or celestial body has attraction with an effective distance. The intensity of magnetic field of each celestial body is different, and the extremum of F is zero. This formula shows that F is directly proportional to the product of mass and inversely proportional to the square of distance. If G is a constant, then F would never become zero, which is in conflict with the effective distance of attraction on earth. If two objects (celestial bodies) could attract no matter how far away, then numerous mutual attractions would interfere with celestial movement, which would further turn into Brownian movement. In fact, celestial movement is regular without any interference. So G shall be a variable. If spacemen are still subject to gravitation F from the earth, according to  $F=ma$  they'd have acceleration  $a$  and would fly to the sun or earth from slow to fast. However, the fact is not the same. Spacemen could walk in the space,

thus proving that they are already out of the scope of effective distance for the gravitation from the earth.

After over 100 years since the law of universal gravitation was established, the British physicist Cavendish tested  $G = 6.67 \times 10^{-11} \text{N} \cdot \text{m}^2 / \text{kg}^2$  through his own design - torsion balance equipment (Fig.1). Without finding out why  $G$  is a constant, it's not feasible to put it in the formula together with the earth's mass and distance to calculate the mass of another celestial body. This is totally groundless. In the book *Heterodoxy on Geophysics and Celestial Movement*, it's demonstrated that Cavendish's experiment is influenced by geomagnetic field and the  $G$  is bigger by at least 20% to 30%. The earth's mass doesn't match the fact and whether  $G$  is a constant could not be proved. Due to different magnetic intensities on the moon, earth, Venus and Mars, different  $G$  would be calculated through Cavendish's experiment. This experiment should at least be done in the space so as to be reliable. Cavendish's experiment has never been demonstrated in middle schools. We can't know if the apparatus is too previous to be damaged by students or it's too mysterious. Or is it because of lack of scientific evidence? Truth shall undertake challenges from diverse opinions. There's three doubts on this experiment:

### 1. Doubts on the design evidence for ball $m$ and $m'$ in the torsion balance experiment

In Cavendish's torsion balance experiment (Fig.1), its design rationality and scientificness are never introduced in the textbook. Student only know that  $G$  is calculated by suspending  $m$  and getting the torsion angle when reaching the  $m'$ , while no one knows the ratio of material and quality of  $m$  and  $m'$ , length of level connecting  $m$ , and distance  $r$  between  $m$  and  $m'$ .

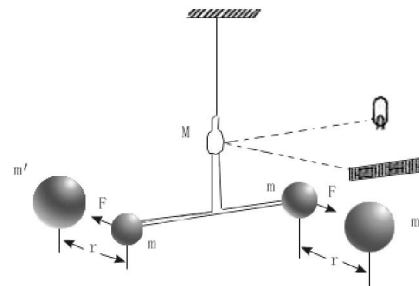
In paper II, attraction from material and celestial bodies comes from electrons' revolution around the nucleus, which further generates magnetic field and its force (attraction). More electrons could generate stronger attraction. Thus 1kg stone has less attraction than 1kg iron, and such attraction is determined by the mass, density and material quality.

$m_1$  and  $m_2$  in the formula of universal gravitation represent two materials or celestial bodies of different mass. Astrophysicists calculate another celestial body's mass with the earth's mass (which is known), so  $m_1$  and  $m_2$  here represent the mass of celestial body. Since celestial bodies are all heterogeneous whose gravitation is different from that of homogeneous, so gravitation coefficient  $G$  is a variable. The balls  $m$  and  $m'$  in Cavendish's experiment should be homogeneous, and it's hard to believe if  $G$  could be used to calculate the mass of two heterogeneous materials (celestial bodies). Since gravitation is only related to mass, Cavendish should

do several experiments with same mass and different material quality and specific gravity so as to reach convincing conclusion. Also, how did he decide the mass of  $m$  and  $m'$  and the distance  $r$ ? There're so many unsure factors in this experiment and we're not sure if  $G$  from his experiment is correct.

### 2. Doubts on the evidence for determining the distance $r$ between $m$ and $m'$ in Cavendish's experiment

From Fig.1, Cavendish didn't give the theoretical evidence for the distance  $r$ , which is quite confusing. Since  $m$  and  $m'$  are constant,  $r$  is variable, constant  $G$  is thus decided by  $r$ . According to our analysis of the torsion balance equipment, shorter distance between  $m$  and  $m'$  means bigger attraction, and vice versa. When such distance reaches certain extent, the mutual attraction would approach zero. Facts show that objects on earth can only attract within an effective distance. Mathematical theories also prove that when a positive number approaches infinitesimal, its extremum is zero. However, the mutual attraction in the formula of universal gravitation could never be zero, which is against fact and mathematical rule. More importantly, if two objects can attract no matter how far away, then it's impossible to calculate the mutual attraction and the formula of universal gravitation would be impractical.



卡文迪许实验示意图  
Figure 1

Schematic drawing of Cavendish's experiment

The launch of manmade satellite and spacecraft has proved that attraction from celestial bodies has effective distance. However, the astrophysics field still refuses to admit it, which is quite confusing. Even if the torsion balance experiment could prove  $G$  is related to distance and is not a constant. Suppose  $r = a$ , we could calculate  $G$ , then suppose  $r = a$  to get  $G(G' = \frac{1}{n}G)$ . Suppose  $e = \frac{1}{n}G$ , so the expression could be:

$$F = (G - re)m_1m_2 / r^2 \quad (2)$$

The meaning of signs is the same as that in formula (1)

Since  $G - re=0$  (or less than 0), the mutual attraction is zero, and the effective attracting distance would be :

$$r = G/e \quad (3)$$

By analyzing (3), we could see that the effective distance is not related to mass, which is obviously unreasonable. It proves that the express of universal gravitation is incorrect and  $G$  is not a constant. Due to different magnetic field intensity in each celestial body,  $G$  is different if tested in different celestial bodies. It's a conceptual mistake to apply  $G$  tested from earth in other celestial bodies. So the formula of universal gravitation and  $G$  are short of theoretical evidence. Since people couldn't calculate the mass of celestial body for now (the published mass of celestial bodies are not reliable), there's no one doubting about the formula of universal gravitation and  $G$ .

### 3. Cavendish's experiment is influenced by earth's gravitation and couldn't calculate the correct gravitation constant $G$

Due to the essential difference between celestial mechanics and mechanics for objects on earth, they can't be unified. Celestial body has mass but no weight or influence from cosmic magnetic field; objects on earth have weight and mass and are influenced by geomagnetic field, and this is their essential difference. One mistake in Cavendish's experiment is lack of scientific evidence in the torsion balance equipment, and another mistake is that it was conducted on earth, so it's obvious incorrect to apply  $G$  in the formula to calculate the mass of other celestial bodies.

From Fig.1, the four balls have weight. The two balls  $m$  are suspended, thus balancing their weight  $mg$ . The two big balls  $m'$ , have weight and static friction resistance since they're not suspended (ignoring the attracting resistance and air resistance that influence  $m$  and  $m'$ ). When  $m$  approaches  $m'$  due to attraction,  $m'$  couldn't move due to friction resistance, thus the problem in this experiment is exposed. Suppose the 4 balls are not influenced by gravity or other resistances,  $m$  would move  $s$  and  $m'$  moves  $s'$  towards each other, so  $ms = m's' (m/m' = s'/s)$ . In this way, even if they couldn't reach each other, the displacement of  $m$  would be less due to the displacement of  $m'$ , and the torsion angle would be smaller, so  $G$  would be smaller. From above analysis, its design lacks scientific evidence, so the gravitation constant  $G=6.67 \times 10^{-11} \text{N} \cdot \text{m}^2/\text{kg}^2$  is impractical.

In past 400 years people have believed in the heliocentric theory, Kepler's first law (which have been denied) and the law of universal gravitation and the gravitation constant  $G$  without anyone doubting

about it. In this paper, it's proposed that attraction has an effective distance and  $G$  is a variable, which would not be recognized in the astrophysics field for a long period of time. Actually truth is the fact, which doesn't mean being recognized by most people. In a time of highly developed aerospace technologies, it's easy to prove the problems in this paper. We could test the height where gravitation acceleration is zero on earth and moon, or test the height where object doesn't fall on the earth or the moon. Their effective distances would be different due to different attraction. For  $G$ , we should redesign a torsion balance equipment and conduct experiment in the space, which would prove that the  $G$  from Cavendish's experiment is wrong. Even if we do not redesign it, we could find that  $G$  is bigger than its actual value in the experiment conducted in space.

December 10, 2011

### Newton's laws of mechanics can't be applied to movement of terrestrial objects (Paper 5)

Guo Xuannian Water Conservancy Bureau, Zhuzhou, Hunan, China

**Abstract:** Movement of celestial bodies and movement of terrestrial objects are essentially different. Newton didn't determine the application scope of three laws and actually they are only applicable to celestial movements through practice examination. To apply to movement of terrestrial objects, they must be corrected combining with the kinetic energy formula.

**Key words:** the terrestrial objects have the inertia of stationary;  $F=ma$  is insignificant for terrestrial moving objects; acting force and counter-acting force are not equal.

Newton was misled by the heliocentric theory to propose the law of gravitation, which misled astrophysics community, so that nobody dare to question the heliocentric theory and the law of gravitation. Newton failed to recognize that attraction and attraction resistance always coexist, and the attraction of any object (celestial body) has a valid distance. Terrestrial moving objects are influenced by the attraction of the earth, but celestial movement is not disturbed by the gravitation of other celestial bodies, so these two types of movements are essentially different. Newton confused celestial movement and movement of terrestrial objects, and proposed the famous three laws. In fact, these three laws only apply to celestial motion, but do not apply to the movement of terrestrial objects (unless the terrestrial objects are beyond the earth's valid attracting distance). Only after being corrected, Newton's three laws can apply to the movement of

terrestrial objects, otherwise, they are not practical at all on the earth (or the surface of other celestial bodies).

### 1. Newton's first law (law of inertia)

Newton thought: Every object persists in its state of rest or uniform motion in a straight line unless it is compelled to change that state by forces impressed on it. This is Newton's first law. In Newton's times, humans could not go to space aerospace. The law of inertia aims at Earth objects, referring to terrestrial objects instead of celestial bodies, which proves that Newton's first law is wrong. Because the objects on the ground are influenced by the earth's attraction and, and except for the acting force  $F$ , the moving objects are also acted by friction, air resistance and attraction resistance of moving object cutting magnetic field lines of the earth resistance (refer to paper II). The kinetic energy of the object generated from the acting force  $F$  will be consumed by various resistance, and ultimately it will remain relatively stationary to the earth, i.e. the terrestrial objects only have inertia of stationary, but have no inertia of moving. A car can still run a distance after turning off the engine, and this is from the energy storage rather than inertia of moving. People will never manufacture a perpetual motion machine on the earth, because the attraction of the earth will consume the energy of moving objects and finally it will remain relatively stationary to the earth. If the perpetual motion machine is sent into space and gets rid gravitation of celestial bodies, it will be successful and exist in space. Secondly, the terrestrial moving objects can't keep a uniform linear motion. First it will be uniform decelerated motion without acting force on the objects; Second, the earth is ellipsoidal and there are only curved lines but no straight lines. Terrestrial objects can have inertia of moving after getting rid of the earth's attraction, otherwise, they only have inertia of stationary. Therefore, Newton's first law should be rewritten as: Attraction of the earth keeps all objects on the ground stay relatively stationary (stationary inertia). The motion energy of moving objects will be ran out by the earth's attraction resistance till objects stop moving.

### 2. Newton's second law

Newton thought: the acceleration of an object is directly proportional to the force and inversely proportion to the mass of the object. This is Newton's second law. Acceleration and force are vectors, and they all have directions. Newton's second law not only determines not only the relationship between acceleration and magnitude of force, but also identifies the relationship between the directions: the acceleration and the force which caused the acceleration are in the same direction. Its mathematical formula is

$$F=ma$$

This law indicates that: an object gets acceleration only when it's affected by an acting force. The acceleration maintains constant when the force maintains constant; the force changes with time and so does the acceleration. At some point, the force stops and the acceleration also disappears, but the object will remain the motion state of that point due to inertia and won't change.

Analyzing the formula of Newton's second law  $F=ma$ , we can know that this formula only applies to the celestial movement or the movement of objects in space, because the formula is established on the premise that an object only has mass, but no weight. The objects on the earth other celestial objects have gravity because of attraction, and gravity will generate friction (air) resistance and attraction resistance, which means the moving objects are not only influenced by the force  $F$ , so  $F=ma$  does not apply to terrestrial moving objects. Newton confused concepts and equated celestial movement and the movement of terrestrial objects. For example, a terrestrial object has gravity, friction, air resistance, as well as attraction resistance, and when the acting force  $F$  is smaller than the sum of these resistances, the object will not move at all, but how the acceleration comes into being? Even if the object remains a uniform motion on the horizontal plane, it also needs a constant force. This shows that on the ground, only impressing a force on the uniform moving object, will acceleration appear. After gaining acceleration, the object's moving speed will be higher meanwhile it will need bigger force. So the force  $F$  has to be bigger and bigger to keep acceleration constant. Therefore, Newton's second law should be rewritten as: only when the acting force on the object is bigger than the resultant force of uniform motion and uniform accelerated movement, the object will gain uniform accelerated movement. Because acceleration enhances the object's moving speed,  $F$  has to be getting bigger and bigger to keep acceleration constant. When the acting force stops, the acceleration will disappear and the object will gain uniform decelerated motion till it stops moving.

$F=ma$  does not apply to the movement of terrestrial objects, but it did not questioned by people until now. That's because people never use  $F=ma$  to calculate the movement of terrestrial objects, but use

kinetic energy formula  $E_k = \frac{1}{2}mv^2$ . The force which

was neglected by Newton is made up by kinetic energy formula.

To apply to the movement of terrestrial objects, Newton's second law must be corrected and improved combining with kinetic energy formula. The formula is

$$F = m\left(a + \frac{V_t^2}{2\Delta s}\right) \quad (1)$$

In the formula: F—the acting force at some point (N), a variable;

m—the mass of the moving object (kg),

a constant;

a—the acceleration ( $\text{m/s}^2$ ), a constant;

$V_t$ —the speed at some point (m/s), a

variable;

$\Delta s$  —the distance at some point (m);

The object rises vertically, the formula of the acting force is:

$$F = m (g + a) \quad (2)$$

In the formula, the meaning of symbols is the same with in formula (1), and g--acceleration of gravity, unit  $\text{m/s}^2$ .

The object does acceleration motion on a slope (climbing up a hill), the formula of F is:

$$F = m \left( g \sin \alpha + \frac{V_t^2}{2\Delta s} \cos \alpha \right) \quad (3)$$

In the formula:  $\alpha$ --- the inclined angle between the slope and the horizontal plane

The other symbols have the same meaning with in formula (1) and (2).

On the contrary, the object glides down the slope and produces acceleration, the formula of F is:

$$F = -m \left( g \sin \alpha + \frac{V_t^2}{2\Delta s} \cos \alpha \right) \quad (4)$$

### 3. Newton's third law:

Newton thought: the acting force and counter-acting of two objects are always the same in magnitude and opposite in direction, acting on the same straight line. This is Newton's third law.

Newton's third law also does not apply to the movement of terrestrial objects. Its description is not right, if it can be applied to terrestrial objects. The object with circular motion still has the force in tangential direction and gravity which are not on the same line, although its centrifugal force and centripetal force are the same in magnitude and opposite in direction. The shot bullet makes parabolic movement and it enters the object in an arc trajectory. The acting force and counter-acting force are not the same in magnitude and they are on the same arc instead of a straight line. The physics community identified Newton's third law mainly due to misled by the wrong experiment. In the experimental demonstration, they placed two identical circular wooden boards on water with a bar magnet on each of them, and made them approach each other with hetero poles to prove that Newton's third law is correct. In fact, this experiment was insignificant for proving

Newton's third law, because the difference between celestial motion and the movement of objects is that celestial bodies have mass but no weight, and terrestrial objects have weight and mass; the terrestrial active objects have to overcome gravity and friction resistance, but the passive objects are supported by gravity, attraction resistance and static friction etc. So they are not equal at all; They should choose the collision force instead of mutual attraction when doing the experiment of acting force and counter-acting force. Besides they did the experiment on water and the buoyancy force of water balanced gravity of the objects, which changed the originally different external conditions. Did this experiment still make any sense? This is simply perpetrating a fraud and using magic in place of scientific experiments.

Acting force and counter-acting force are not equal and this has been proven in production. For example, a motor with work load stops working and restarting it will need six times bigger power comparing with the normal one. The model experiment shows: Two balls have equal mass. The moving ball hit the stationary ball and the acting force is at least twice of the counter-acting force. Therefore, if Newton's third law can be used on the motion of terrestrial objects, it must be rewritten as: the acting force and counter-acting of two objects are opposite in direction, but equal in magnitude, and the acting force is always bigger than the counter-acting force but they may not be on the same straight line.

December 14th, 2011

### Weight of a terrestrial object is inversely proportional to its movement speed (Paper 6)

Guo Xuannian Water Conservancy Bureau, Zhuzhou, Hunan, China

**Abstract:** The weight of a terrestrial object is not only subject to the earth's attraction, rotation and displacement speed, but also subject to its movement speed. The weight of the object is a relative value (the mass is an absolute value). In order to calculate the absolute weight of the object, the earth has to stop rotating and displacing and stays in a static state.

**Key words:** weight of a terrestrial object; the object's movement speed; weight is inversely proportional to speed.

Free fall is influenced by the earth's gravitation, with the acceleration of gravity g, on the equator:  $g = 9.78\text{m/s}^2$ , within Arctic Circle  $g = 9.83\text{m/s}^2$ . Thus, we can infer that the same object's weight is different on the equator and the Arctic Pole (Antarctic Pole) with a difference of about 5%. If the earth stops rotating and displacing, the object's weight can reach up to the



maximum value. Why do acceleration of gravity and weight of the object change with latitude? That's because of the magnitude of the acceleration of gravity is related to the linear speed of the earth's rotation, i.e. When the equatorial linear speed is big, the acceleration of gravity is small, otherwise the acceleration of gravity is great. This proves that the vertical speed and horizontal speed can influence each other and the weight of the object is related to the linear speed. As the attraction of any object (celestial body) has a valid distance, i.e. the acting attraction of the earth becomes weaker and weaker when the object gets farther and farther away from the earth, the acceleration of gravity and the weight are different at different heights. Due to the lack of this idea, so far no one has pointed out that the weight and acceleration of gravity are also inversely proportional to distance.

The weight of a terrestrial object is not only related to the earth's attraction and linear speed of rotation, but also related to its movement speed. Take launching artificial earth satellites for an example, when the satellite's speed reaches up to 7.9km / s, it will fly to the sky and not fall onto the earth. This proves that when the satellite's speed approaches infinitely big, its gravity approaches infinitely small and the ground's bearing capacity to the satellite is zero, which means that the weight is zero. The earth is the carrier of the terrestrial objects and let's take the earth's rotation and displacement as passive movement and the object's movement relative to the earth is active movement, so the active object's speed determines its weight. The speed of a moving object is from slow to fast, and its weight also decreases from heavy to light. When it reaches up to 7.9km / s, the weight of the moving object is zero. Therefore, as long as the object has a speed of over a horizontal direction, its weight will decrease, i.e. the pressure on the ground decreases. The relationship between weight and the object's speed can be expressed via the formula:

$$G' = m \left( g - \frac{Ev^2}{\Delta s} \right) \quad (1)$$

In the formula:  $G'$ —weight of the moving object (kg)

$m$ —mass of the object,  $m=G/g$

$g$ —the acceleration of gravity, the mean value,  $g=9.80665\text{m/s}^2$

$v$ —speed of the object (m/s)

$\Delta s$ —the distance that the object passes in one second

$E$ —constant (1/s),  $S$ —second

$$\text{Let } g - \frac{Ev^2}{\Delta s} = 0 \quad (2)$$

We have known that the artificial earth satellite reaches the first cosmic speed, and its weight relative to the ground is zero. Therefore, put  $g = 9.80665\text{m/s}^2$ ,  $V = 7900\text{m/s}$ , and  $\Delta s = 7900\text{m}$  into formula (2) to obtain  $E = 1.2413 \times 10^{-3} (1/s)$ , and put the  $E$  value into equation (1) to get the formula

$$G' = m (g - 1.2413 \times 10^{-3} V / s) \quad (3)$$

In (paper IV), we have discussed that the gravitational constant  $G$  is a variable. Even it's a constant, the  $G$  value is also about 30 percent larger. Contract the gravitational constant  $G$  by 30% to obtain

$$V_1' = 6.62\text{km/s}, \text{ and calculate constant } E = 1.4814 \times 10^{-3} \left( \frac{1}{s} \right), \text{ then put } E \text{ value into}$$

formula (1) to obtain

$$G' = m(g - 1.4814 \times 10^{-3} V / S) \quad (4)$$

With formula (3) and formula (4), as long as we know mass and speed of the object, we can calculate weight of the moving object. But there are two issues worth noticing: First, the formula (3) is using the first cosmic speed to calculate the constant  $E$ ; formula (4) is contracting the gravitational constant  $G$  by 30% to obtain  $V = 6.62\text{km/s}$  to calculate  $E$ . With formula (3), the weight of the moving object is too large, but formula (4) has not been proved. Second, the Cavendish's experiment lacked of scientific basis, the design of experimental apparatus, the gravitational constant  $G$  is a constant or not, and whether it can be carried on the earth are all questionable. Therefore, using formula (3) or formula (4) to calculate the weight of the moving object can't be accurate and it should be examined by practice.

December 16th, 2011

### The earth's displacement trajectory surrounds the moon's displacement trajectory (Paper 7)

Guo Xuannian Water Conservancy Bureau, Zhuzhou, Hunan, China

Abstract: When the equatorial linear speed of the celestial rotation is big, its diameter of the displacement circle is large, otherwise it's small. It doesn't exist that a celestial body turns around another one. The paper analyzed the total lunar eclipse according to the moon moving around the earth and the earth moving around the sun to prove that the earth's and the moon's orbital speed is several times larger. It can also prove that it does not exist that the moon turns around the earth and the earth turns around the sun. Thus, we can know that the earth does circular motion outside the sun's

displacement trajectory and the earth's displacement trajectory surrounds the moon's displacement trajectory.

Keywords: the relationship of the earth's and the moon's movement; analyzing the total lunar eclipse; disclose the misleading of the moon moving around the earth.

"Paper III" pointed out that when a celestial body's mass is big enough, the celestial body will contract to a sphere to due to its own gravitation, and turn to an ellipsoid because of rotation. The interior is pushed and pressed to generate heat, thermal motion and electron flow which makes celestial body rotate, and rotation produces centripetal force to cause its displacement in a circular motion. The linear speed of a celestial body with a big mass is high and the circular trajectory of the celestial displacement is also big, otherwise, the circular trajectory of the celestial displacement is small. The celestial rotation and displacement are entirely from internal forces and no celestial body revolves around another one. If two adjacent celestial bodies' mass is quite different, the displacement trajectory of the large celestial body surrounds the small celestial body's displacement trajectory, but the case does not exist that the small celestial body moves around the big one. It's like a young mother runs in circles with a 3 or 4-year child, the slow child definitely runs in the inner circle and the fast mother runs in the outer circle.

When Copernicus proposed the heliocentric theory, Kepler published his first law and Newton introduced law of gravitation, people didn't know that stars can rotate and displace, and the speed of a star's rotation and displacement is higher than that of a planet. They thought that the star is static, so that the above theories were proposed. They also believed that the Milky Way was composed of stars, but they didn't know that there are many planets in the Milky Way, because planets do not emit light and are too far away to be seen. If Copernicus knew the speed of a star's rotation and displacement (revolution) is much faster than that of a planet, he wouldn't propose heliocentric theory of the earth (planet) revolving around the sun. Otherwise, he must firstly study how celestial bodies with small kinetic energy move around the ones with large kinetic energy.

Given that the slow displacing celestial body can't turn around the fast displacing celestial body, in "Paper III" I have pointed out that there is no mutual attracting and one moving around another one in celestial motion, and the possible case is that the large trajectory can surround the small one for two adjacent stars with quite different sizes. Besides, I also proposed five natural phenomena to prove that the earth does not rotate around the sun. Earth and Moon are two adjacent planets (Those so-called satellites are

just small planets neighboring big planets). We know the shortest distance between Earth and Moon of 363300km and the longest distance of 405500km, and there must be the sun, the earth and the moon making a line or the sun, the moon and the earth making a line (difference of height), when lunar eclipse and solar eclipses occur. While the earth moving around the sun and the moon moving around the earth can make this happen, so the astrophysicists did not doubt the moving relationship. The equatorial rotation speed of the earth's rotation, 0.46511km / s and that of the moon's rotation speed 0.016655km / s are real and undisputed. But the earth moving around the sun and the moon moving around the earth is only conjecture. But the Earth's revolution speed of 29.8km / s, the moon's revolution speed of 1.023km / s, and the sun's revolution speed of 250km / s are not convincing. For more than 4 centuries, the astrophysics community blindly worshiped the heliocentric theory, Kepler's first law and the law of gravitation, so that the movement of celestial bodies was trapped in the maze of superstition and unable to get out. If there wasn't a kind of mysterious substance (Ether) in the universe, the earth (planet) would be abandoned by the sun and the moon would be abandoned by the earth, so the current theories of celestial movement are not correct. Analyze the relationship between the sun, the earth and the moon with composite motion to get that the sun's kinetic energy is the biggest and its travel distance is the shortest, the earth is medium, and the moon's kinetic energy is the smallest, but its travel distance is the longest. Is this even possible? Astrophysics community used mysterious substance as a carrier to cover up the truth of celestial movement, which is the same with Newtonian's idea of God making the earth move? Science should eliminate superstition and seek truth from facts to get the truth.

The astronomy community and physics community use the earth moving around the sun and the moon moving around the earth to explain lunar eclipses and solar eclipses, which exposes their superstition and there are still two issues worth questioning.

1. If the earth moves around the sun and the moon moves around the earth, there should one opportunity for two cases of the sun, the earth and the moon making a line or the sun, the moon and the earth making a line per month, i.e. There should be one solar eclipse and one eclipse in every month, but the fact is not like that and there's only one total lunar eclipse and total solar eclipse every several years. At least this proves that the moon doesn't move around the earth.

2. We have known the period of the earth's displacement is 365.2564 days (earth year) and the moon's is 27.32 days (lunar month). If the moon

moves around the earth, the moon will run 13.3659 circles around the earth during one earth year, i.e. there should be 13.4 lunar months, while the actual number is 12.3, and there is a leap month every three years.

The above two points prove that the earth moving around the sun and the moon moving around the earth are false. Astrophysics community dared to break the heliocentric theory and try a different way of thinking, i.e. planets do circular movements outside the sun's displacement trajectory and the earth's displacement trajectory surrounds the moon's lunar displacement trajectory. So that they can get rid of the superstition of celestial movement without mysterious substance and also explain the natural phenomena and the causes of solar eclipses and lunar eclipses more reasonably. The reasons are: even if the earth's displacement trajectory surrounds the moon's lunar displacement trajectory, there are still opportunities which is not once a month of the sun, the earth and the moon making a line (or the sun, the moon and the earth) . This is more reasonable for real-world phenomena. Because the earth's displacement and the moon's displacement have the same direction, there are more than 12 months instead of more than 13 month every year in lunar calendar and there are 29 days and 30 days instead of 27 days or 28 days in a lunar month.

Knowing that the earth does circular motion outside the sun's displacement trajectory and the earth's displacement trajectory surrounds the moon's lunar displacement trajectory, according to the Earth-Moon distance, we can calculate the diameter of the earth's displacement about 785032km (estimation). With it, we can find that the displacement speed of the earth can be  $0.07815\text{km/s}$  rather than the revolution speed  $29.8\text{km/s}$ ; and we can also estimate the diameter the moon's displacement is 42200km, and the displacement speed is  $0.0562\text{km/s}$ , rather than the revolution speed  $1.023\text{km/s}$ . From the uniform rotation of the mechanical gyroscope, we can know that its displacement speed is way lower than the linear speed of rotation. This proves that the new theory of celestial movement is in accordance with the movement rules of the mechanical gyroscope, which is more realistic. Now we can use total lunar eclipses to prove that the earth's and the moon's revolution speed is too large. Although the results are not quite accurate, at least it proves that the earth moving around the sun and the moon moving around the earth are wrong.

On the night of December 10th, 2011, Zhuzhou folks saw a total lunar eclipse. The eclipse started at 19:33 and ended at 1:30 the next day, which lasted 5 hours 57 minutes. During the eclipse, red moon lasted 51 minutes, but I'm not sure it can be a part of the eclipse, so let's treat it as a part of the eclipse time. No

matter what the relationship between the earth and the moon is, their moving directions are the same (not reversed). Although the earth and the moon move along curved lines, comparing 5 hours 57 minutes with 27.32 days and 365.2564 days, we can consider that the earth and the moon move along an approximate straight line and ignore the impact of arch back. The so-called total lunar eclipse starts with projection of the earth and the moon's exterior contact and ends with getting rid of the moon. The earth moving distance is equal with the distance of the moon traveling during eclipse  $\Delta s$  plus the diameter the earth. Due to the earth's rotation, the earth is a moving point for the people on it to watch the eclipse, and 5 hours 57 minutes is equivalent to a quarter of the earth's rotation period. In this situation, human displacement distance is approximately equal to the radius of the earth, which gives rise to a visual error. In addition to this error, there must be visual error and shadow overlap caused by squint in the average distance between Earth and Sun, about 150 million km, and the average distance between Moon and Earth, about 384000km. Calculate and check the earth's revolution speed based on observation of phenomena and the eclipse's time, the result must be inaccurate, but it can explain some issues.

#### 1. Use the earth's revolution speed of 29.8km/s to check the result

With the moon's revolution speed  $1.023\text{km/s}$  and the eclipse's time 5 hours 57 minutes, we can calculate the moon's moving distance about 21912.66km. We also know the sum of the earth's diameter and the moon's diameter is 16232.474km and the earth's moving distance during the lunar eclipse is  $\Delta s$ , so

$$\Delta s = 21912.66 + 16232.474 = 38145.124(\text{km})$$

Calculate the earth's moving distance  $S$  in 5 hours and 57 minute,

$$S = 29.8 \times 357 \times 60 = 638316(\text{km})$$

the accurate rate

$$\eta = \frac{\Delta s}{S} = \frac{38145.124}{638316} = 6\%$$

From the above, we can know the earth's revolution speed is  $29.8\text{km/s}$  and the accurate rate is only 6%, so this is obviously wrong.

#### 2. Calculate the earth's revolution speed according to the lunar eclipse's time

We have known that the lunar eclipse's time is 5 hours and 57 minutes, and if the moon does not move around the earth, its displacement speed is about  $0.0562\text{km/s}$  and the earth's moving distance is 1203.804 km. The earth's moving distance should be  $1203.804 + 16232.474 = 17436.278(\text{km})$ . Assuming the earth's revolution speed is  $V'$ , we can get that

$$357 \times 60 V' = 17436.278$$

and  $V' = 0.814 \text{ km/s}$ . From this, we can know that when the earth's revolution speed lessens to  $0.814 \text{ km/s}$ , it won't be able to move around the sun. So the theory of the earth moving around the sun is nonsense and Copernicus' heliocentric theory can be denied.

### 3. Calculate the earth's displacement speed with the theory of the earth's displacement trajectory surrounding the moon's displacement trajectory.

We have known that the earth's displacement speed is  $0.0562 \text{ km/s}$ , assume the earth's displacement speed as  $V'$  and treat the red moon as the overlap of shadow instead of the time of the lunar eclipse, then the total time of the lunar eclipse is only 5 hours and 6 minutes (18360 seconds). Due to the earth's rotation, people's visual displacement is about  $5315 \text{ km}$ . According to the known conditions, we can get an equation:

$$16232.474 - 5315 + 18360 \times 0.0562 = 18360 V'$$

and get  $V' = 0.6508 \text{ km/s}$

From the above analysis and calculation, we can know that the results are only approximate values because the known data is inaccurate. But I'm sure that the earth's revolution speed  $29.8 \text{ km/s}$  is way, and it will be trustable if it's between  $0.6508$  and  $0.814 \text{ km/s}$ . This proves that the moon moving around the earth and the earth moving around the sun are false and Copernicus' heliocentric theory is a baseless conjecture. It is estimated that the diameter of the earth's circular displacement is and its displacement speed is  $0.07815 \text{ km/s}$ , which is too small examined by the lunar eclipse. This dictates that the diameter of the earth's circular displacement and the lunar eclipse's time still need to be proved, and the average distance between the sun and the earth is 390 times longer than that between the earth and the moon, including the projection error. What's the relationship of the sun, the earth (planet) and the moon? The mystery of celestial motion hasn't been broken and humans can not be optimistic yet. We have to get rid of superstition, break the restricted area, observe astronomical and natural phenomena and combine with geophysics to carry out scientific experiments and propose various views to find the truth.

December 20th, 2011

#### The movability of the celestial moving trajectory and preliminary explanation of global warming (Paper 8)

Guo Xuannian Water Conservancy Bureau, Zhuzhou, Hunan, China

Abstract: The celestial mass is not constant but

variable. The kinetic energy is directly proportional to the celestial mass, and the kinetic energy determines the rotation speed and displacement trajectory of celestial bodies. The celestial bodies' (Earth) spherical shells keep moving and changing under the action of interior force and they can cause the exchange of ocean and mountains. Besides, the temperature of the atmosphere is also not long-term stable and unchanging. The celestial interior heat does not play a decisive role for the atmospheric temperature, which is mainly determined by receiving the sun's heat and light. The amount of the sun's light and heat the earth receives is also related to its distance from the sun's incident angle.

Key words: celestial displacement trajectory and the average temperature of the atmosphere are all variable; people can not destroy the earth's inherent displacement trajectory and have to know how to protect the Earth.

Astronomers divided celestial bodies into stars, planets and satellites (excluding comets), which has been identified by people for a long time. As the names implies, a star is a still, and hot and glowing celestial body, but stationary has been proved to be non-existent; a planet is a celestial body moving around stars; a satellite is a small celestial body moving around planets. These above views are misled by Copernican heliocentric theory and Newton's law of gravitation, which will be denied by facts that sooner or later.

The book "On geophysics and different view about celestial motion" says that book that the celestial bodies are all planets and they can't be divided into stars, planets and satellites. The real difference of them is: some celestial bodies can emit heat and light (i.e. star); some only emit heat but no light (planets, satellites). For a long time, people used to call them stars, planets and satellites, which is not necessary to be changed. However, people have to realize that the celestial body's rotation can generate displacement and the displacement trajectory in unit time can be taken as circular motion. The case that one celestial body moves around another one does not exist, but sometimes a large trajectory can surround a small one that does not exist, but there is a large enclosed track special case of the small track. A new theoretical perspective needs time and the development of science and technology to be accepted by people. Now there are still many mysterious astronomical phenomena, so we need not only to be patient, but also the spirit of the Foolish Old Man removing mountains. We need to believe that our later generations can complete this task.

Substance composed of molecules which are

made of by atoms and can attract each other, and celestial bodies are composition of various substance. In all atoms, electrons move around the atomic nucleus. The celestial interior parts generate high temperature due to high pressure, high temperature can cause thermal motion can happen, thermal motion can produce electron flows to make celestial bodies rotate and the rotation can make celestial bodies displace. From these, we can know that the bigger the celestial mass is, the bigger its kinetic energy is, and so is its corresponding rotation speed and displacement trajectory.

Why the celestial mass is variable, and do its rotation speed and displacement trajectory also change? People can analyze stars, which continue to emit heat and light and they all will spread out. The stars heat and light are from nuclear reactions of spheres, which consume substance, so the mass of the star is gradually reduced. The mass is reduced, its corresponding kinetic energy also weakens, and the sphere's rotation and displacement speed is also decreasing. However, this kind of attenuation on the mass of the huge star is very slow, people can hardly see this change in their whole lives. Besides, the stars in addition to the sun are all very far away from the earth so that people are unable to notice this change. At that time, there's no telescope, so that people thought all the celestial bodies which emit heat and light are stationary. Therefore, they named them stars.

Planets (satellites) are different from stars. For example, the interior parts of the earth generate high temperature due to high pressure, and the geocentric temperature can be up to 5500 ~ 6000 °C, because it's wrapped by thick mantle and crust and the heat is difficult to dissipate. Even in volcanic eruptions, the heat loss is minimal. Planets does not emit light and there's no nuclear reactions, which won't consume a lot of substance. Contrarily planets accept cosmic dust (the earth often accept meteorites), so the planet's mass is increased, rather than decreased. The increasing mass leads to an increase in energy, so the rotation and displacement speed is also getting faster slowly. This change is not obvious in a very short period of time, and it will be discovered by people even after thousands of years.

Astronomers named the composite galaxy people can see on the earth Milky Way. This nomenclature is not accurate, since the humans have identified, and there is no need to be renamed. Because all the planets in the Milky Way can't emit light, people can not see them and only see the stars. The ensured part is that the sum of planets' mass in the Milky Way is much smaller than the stars' mass, but the quantity of planets is much larger than quantity of stars. As we can also only see the luminous stars in the distant composite galaxies, so it is also named the Milky Way?

Therefore, the Milky Way should be marked subscripts to show distinctions. The celestial displacement is extremely slow, it is difficult to observe in human's limited life time, so modernists can shoot an astronomical photo saved and let later generations compare the astronomical phenomena after thousands or millions of years. So all the theories can be checked and proved.

I've proposed such opinions that no celestial body revolves around one another and the attraction has an effective distance. Such new opinions may not be recognized for now since they're against the old opinions. If we have an ideal telescope, we could use it to observe Cetus that's closet to the earth. Through one period of observation we could find that all planets have their individual trajectories. This proves that planets and stars don't attract each other, so Copernicus's theory and the law of universal gravitation are wrong. We could better discuss the change of temperature in the atmosphere of celestial bodies (earth) if not limited by old theories.

Now it's believed that only earth has lives on it among the 9 (8) planets in the solar system (other planets haven't been found), so we only need to discuss the change of temperature in the atmosphere of the earth. Human beings have lived on earth for about dozens or hundreds of thousands of years with a recorded civilization of less than 5000 years. So modern people are not very familiar with changes in the crust and climate and their own evolution of civilization. Through modern archeology, we found that some species were extinct due to huge change in crust and climate. It also proves that meteorological change on the earth is related to crust movement as well as the sunlight.

In the past dozens of years, the earth is warming, glaciers are melting down, sea levels are increasing, part of the land is saturated, some species are extinct, and disasters are stepping closer to human beings. Although global warming considered to be the result of industrialization, this is not the major problem. By analyzing the reasons for these phenomena, besides crust instability and volcanic eruption, collision or approach by aliens and the earth's own movement both pose a significant impact. These would influence the distance between the earth and the sun and the angle to receive the sun's light and heat. Although industries influence global warming, it's not the main cause. We should realize that sudden changes on earth may influence the survival of certain plants and animals or even make some species extinct. Gradual change in climate could make species evolve and adapt.

As industrialization accelerates, lots of fuel and oil are burned, thus creating more heat, carbon dioxide and waste gas. This would change the air structure, increase its density, slow down heat dissipation, and

definitely increase surface temperature. However, this is not the main problem, because heat could dissipate to the universe, which would only take longer. We should pay attention that there's no attraction between the earth and the sun, and earth is just a celestial body hung up in the universe and would have acceleration or move at constant speed under force. Such accumulated displacement should not be ignored if the acceleration or constant speed is quite small. Otherwise, the earth's previous movement trajectory would be damaged. Reduce in the distance between the earth and the sun would increase the earth's atmospheric temperature, and vice versa. Suppose such distance is reduced by 20000km to 60000km, average temperature on earth would increase 1~3°C, and such change is easy to be ignored. Since the earth incessantly receives heat and light from the sun, industrialization only adds a little amount of heat. So we should pay attention to the distance between earth and sun and the angle of incidence for the sunlight, and constantly monitor such distance to prevent any problems.

It's believed that global warming is mainly caused by human beings. Due to our misunderstanding of celestial movement, the earth's movement trajectory would be changed by constantly launching rockets, satellites and spacecraft. The earth, as a celestial body suspended in the universe, has no attraction or cosmic resistance. Its movement trajectory would change except for launching symmetrical rockets, satellites or spacecraft at the equator of both poles, so we should pay attention to this problem. For example, by launching a satellite or spacecraft at the north pole, the earth would change its movement trajectory as well as the angle of incidence of the sunlight. We could reach this conclusion according to related materials. In 1960s and 1970s, only America and Soviet Union launched satellites and spacecraft, so is their climate change slower? Now more and more countries are launching satellites and spacecraft, does this accelerate global warming?

We can do an experiment. Hang a hydrogen balloon of certain weight in a sealed room. It could move under a tiny force (with air resistance around). The earth is like a hydrogen balloon in the universe. Without any resistance, it'll definitely move under force. Since we're misled by the heliocentric theory and Kepler's law, we mistakenly believe that the attraction between the earth and the sun would break a 9000km steel bar. If it were true, the earth would not move.

People's opinion on protecting the earth is just about the protection of plantation, species, water resource and prevention of atmospheric contamination, which is quite superficial. Since the earth's axis is inclined due to unbalanced moment, we should protect

the landscape and topography. Too many changes would lead to earthquake and topological disasters, or even bring destructive disasters if the level of inclination is changed.

History proves that superstition and blind worship would bring us the biggest danger and suppress the facts and truth for a long period of time to a tipping point where we're no longer able to cover up the loss. Ignorance for one people is limited, yet it could bring disaster to all people by worshipping Copernicus' theories and Newton's law of universal gravitation and randomly damaging the earth's stability and balance. Thus we should be reminded again that the attraction from any object or celestial body has an effective distance. The earth is 150 million km away from the sun, has no mutual attraction and doesn't revolve around it. We'd face more disasters or even face the end of the world if we fail to realize this and continue to launch satellites without considering symmetry and balance of force.

April 3, 2012

#### **Anticipating in Developing and Utilizing Cosmic Dust (Paper 9)**

Guo Xuannian Water Conservancy Bureau, Zhuzhou, Hunan, China

**Abstract :** All material and celestial bodies are attractive. Attractive force is directly proportional to its quality while inversely proportional to the distance. Attractive force is subject to distance. Therefore, the two objects cannot be infinite to attract each other. If beyond the effective distance of the attraction, the attraction is zero. Newton's second law  $F=ma$ , applies only to no gravitational interaction's movement of celestial bodies, not for movement of objects on earth and celestial bodies. Knowing this, people could remove isolated small bodies and cosmic dust for serving people.

**Key words:** It is possible to remove cosmic dust which is close to the earth. But they will knock the earth if within the scope of earth's effective attraction. We can develop and utilize the cosmic dust near to the earth.

People identify with the law of universal gravitation proposed by Newton, understood the problems existing in heliocentric theory, believe that any objects are attractive to each other, attractive force

$F$  is  $F = G \frac{m_1 m_2}{r^2}$ . Scientists who still believe the gravitational force calculated the attraction between the sun and the earth is  $3.56 \times 10^{22}N$ , which can tear

down the steel with diameter of 9000km. Because the attractive force of the sun to the earth is so great that people would not consider moving planets, satellites and the bulk of cosmic dust. In fact, any attractive objects have attractive power and attractive resistance to other relative moving objects. If there is no such force, then there distance is beyond the effective attractive distance. The effective attractive distance is calculated as the acceleration of gravity  $g=0$ .

The earth revolves around the sun. The sun's gravity is  $3.56 \times 10^{22}N$ . The rotation and revolution of the earth must cut and slow down by the gravity line of the sun. Without energy supplement, the earth will slow down, until the stationary state. Actually, it isn't. The rotation and revolution of the earth maintains a constant speed in a very long time. This proved that the earth and the sun are far away from each other, and there is no mutual attraction between them. The rotation and displacement of the earth is completely the result of internal force. All the planets are not traveling around the sun, but rotating in the sun's orbit. (much like circular motion). To improve that the planets are not traveling around the sun, neither the satellite travel around the planet, as long as to improve the existence of celestial attractive force and suction resistance.

Working principle of hydraulic turbine generator is the most powerful proof that people can diffuse thinking and use the power of imagination. The workers put the poles into a cylinder (Stator) and cylindrical conductor into a smaller (Rotor). The two can also be transposed with a small gap between the two cylinders to avoid friction. No matter which turbine drives the cylinder rotation, the conductor will cut magnetic line of force. Increasing the pole or speed, power turbine will also increase (current also increases accordingly). This proves that the conductor cutting magnetic lines, which can produce resistance to the former (suction resistance). On the contrary, put the magnetic pole into a big cylinder while the cylinder rotor into a smaller one, so that the pole lost its magnetic force on the rotor namely beyond the effective attraction distance. At rated speed, the larger the gap between stator and rotor is, the smaller the turbine power will be. It can hardly make power. This not only proved existence of attractive resistance, and that is inversely proportional to the distance between them. Because of the celestial attraction is the magnetic force. The planets revolve around the sun so they will cut the sun's magnetic lines. The attraction from the sun will stop the planet. So it is to the satellite. But this does not happen. Not only prove the celestial attraction has effective distance, also prove that the object all traveling independently. The difference only lies in the size of trajectory.

Space activities can also prove that the earth and

the sun did not attract each other. Astrophysicists think the sun is 334000 times the mass of the earth. As set by Newton's gravitational proportion, the sun's gravitational force and effective distance are both 223000 times as of the earth. According to the average distance between the earth and the sun is about 150 million km, the sun and the earth's neutral point is about 6736km away from the surface of the earth. If object is less than 6736km away from the ground, it will fall to the earth. On the contrary, it will fly to the sun. But that is not the case. If the object is 4000km away from the ground, it will not fall back to the earth. This proved that the earth and the sun did not attract each other, gravity and the distance is not a direct proportion relationship (available in different bar magnet combination experiment). The attraction of two objects never equal to zero with the theory of universal gravitation, which lack of experimental evidence and scientific basis.

The third section in chapter sixth of "Geophysics and Celestial motion Heterodoxy" pointed out to use terrestrial planet to serve the people. Before people believe the celestial attraction has effective distance, nobody dare to imagine changing the universe. Even if the effective attractive distance is widely accepted, it's still impossible to move any planets that close to the earth in 200 years. For there is no such equipment can be used. But moving the cosmic dust now can be implemented. In chapter five, how the solar system came into being. The author thinks that the solar system is originated from the explosion of a giant star, which is composed of asteroids absorbing the surrounding clouds of gas and dust. The centrosphere became the sun because of the nuclear reaction. The left spherical shell and mantle became planet and asteroid. They are all traveling around the sun and that it why all planets are in the same plane. Some of them may contain rare or common metal. People can move and develop a diameter of hundreds or thousands of meters of cosmic dust. If people can calculate the effective distance of the forces of the sun and planets, they will be able to find out cosmic dust beyond the attractive of the sun and planets. People can use space technology that has been mastered, looking for the nearest to the earth of cosmic dust, determine its exploitation value. Once determined, according to Newton's second law  $F=ma$ , use the effect of  $F$  to attract cosmic dust to the near earth (4000~5000 km far away from the earth). Preventing it from entering the earth's gravitational pull, otherwise, the cosmic dust will hit the earth. Maintaining a constant distance between cosmic dust and the earth can greatly shorten the spacecraft from the transport distance and reduce the transportation cost.

Exploiting mine on such planets needs high technology and it can also enhance cooperation

between countries and avoid resource-war. It is easier to explore resource on other planets than to the earth's north and south poles at least not interfered by ice cover and water. The gaining of exploiting technology to cosmic dust will help to understand the formation of the solar system as well as removing planets that close to the earth. Since then, human behavior was beyond earth's limitation, people then dare to enter the universe. Great progress was made in knowledge and behavior of the universe. It is of great significance.

May 10, 2012

**Developing and Utilizing Geothermal Energy to Avoid and Reduce the Geothermal Energy Excess Disaster (Paper 10)**

Guo Xuannian Water Conservancy Bureau, Zhuzhou, Hunan, China

**Abstract:** It is well known that Coal, oil, natural gas, plant, wind, come from solar energy. Hydroenergy has dual nature of solar and earth energy (not only hydroenergy). But people did not fully understand and make full use of the earth's energy. Like the rotation and displacement of the earth is the kinetic energy generated by the internal force. Explosives, nuclear fission and nuclear fusion are the energy of substance on earth. People developed a part of earth's energy and gained limited knowledge on the kinetic energy and geothermal energy but no development and utilization. Thus causing the earthquake and volcano eruption. This thesis is about the using of geothermal energy, hoping that people could research and develop that energy.

**Key words:** Geothermal Energy, Developing and Utilizing, Avoid and Reduce the Geothermal Energy Excess Disaster

The fourth chapter of section four in *Geophysics and Celestial motion Heterodoxy* discuss on the reason for earth (celestial bodies) rotation and displacement. The giant material because of magnetic field force molecular self-shrinking into approximate sphere, internal pressure cause high temperature. Thermal motion of substances produced electron flow. Rotary motion of electrons make the earth (celestial) generates rotation and displacement. Because of the electron flow is almost a constant directional movement, so the earth (celestial) occurred never-ending uniform rotation and movement. High pressure, high temperature and electron flow generating heat. The excess heat will erupt from the crustal weakness, in order to maintain energy balance. Otherwise, the earth (celestial) will explode. People use the kettle to boil water, the water vapor overflow

from the kettle mouth and the kettle cover. If the kettle mouth and the kettle lid tightly closed, there is no doubt the kettle will explode.

When there is no life (plant and animal) on earth. It has heat energy and kinetic energy. The external energy is mainly solar energy (Regardless of the cosmic dust hit the earth). Light and heat of the sun evaporates water. After launching, the steam returned to the surface as rain, snow and hail. As a result of crustal elevation and the earth is attractive, the water will flow with kinetic energy. It is not correct to completely attributed water energy to solar energy. Because if the earth is not attractive, how water flow. Hydroenergy has dual nature of solar and earth energy. The wind is the formation of earth's atmosphere temperature difference by accepting solar radiation. It is attributed to the solar wind, maybe also has dual nature of solar and earth energy.

After life appeared on earth, the plants began to carry out photosynthesis. The product can emit light and heat. Even deep burial and squeeze into coal, it can still emit light and heat. Although this is a chemical energy of chemical reaction, the essence is the solar energy conversion. Plants and seeds contain oils, animal contains more. In the long years when human does not appear on the earth or when human are in the original state. Animal and plant body decays, oil into the crust, changed into petroleum and natural gas. All attribute to the sun.

The development and utilization of solar energy has already caused the attention of people. The kinetic energy and heat energy of the earth are really did not being used or used a little. The earth (objects) is not a solid ball. It consists of three parts a liquid or gas (ball), soft belt (mantle) and crust (crust). Because of the three parts have the gradient isolation layer and the stratification of the line speed is not the same. The farther away from the center of the plate, the bigger the line velocity is. There must be exist hierarchical twist that human eyes cannot see. To demonstrate this phenomenon, as long as to analysis of continental drift and local extrusion uplift, you will find the answer. Crustal elevation 5~25km, the convex and concave line speed is not the same (kinetic energy not equal). The proportion of water and solid phase is big, so as to the kinetic energy. Soft mantle makes it hard to keep crust synchronous rotation. Crustal plates drift has been recognized by the people. As the uplift of the Qinghai-Xizang Plateau, the kinetic energy is localized, so it cannot promote the Asian continent, the extrusion uplift inevitable locally. It is certain that this local extrusion uplift, the inevitable rotation direction with the earth proved that the kinetic energy of the earth's rotation.

The earth contains huge energy—geothermal energy. Human uses a small part of the earth's



geothermal energy. The development and utilization of hot spring is only very little part of the earth's geothermal energy. Internal pressure of the earth cause high temperature. Thermal motion of substances produced electron flow. Rotary motion of electrons make the earth (celestial) generates rotation and displacement. Because of the electron flow is almost a constant directional movement, so the earth (celestial) conducts never-ending uniform rotation and movement. The earth's heat is constantly produced by internal motion and forces. If human do not develop and utilize geothermal energy, the heat will excess in earthquake and volcano and bring disaster to human beings. The weak parts of the earth's crust are equivalent to the kettle spout and a kettle cover. If the earth had no weak parts, heat accumulate more, the crust will explode thus destroy the whole earth. The earthquake and volcano are a small part of sacrifice and save the most. To solve the earthquake and volcano eruption problem, we must develop and use excess heat of the earth. Turn evil for good and make it serve the people. Now, the development and utilization of the earth's excess heat are as difficult as moving the planet. Though it is impossible, still we should put developing the earth's remaining energy as main direction of scientific research. As long as we stick to this direction, there are hopes of success.

How to develop and utilize the surplus heat of the earth? First we should carry on the geological exploration and analysis according to the historical data thus gaining the periodic of earthquake and volcano eruption. Earthquake and volcano eruption of heat release, divided by the cycle time will be the amount that region produce excess heat energy. Earthquake and volcano are happened in the weak point of the earth's crust. In this area, people are planning to establish geothermal power plant. The exploitation and utilization of heat energy never came into thought before, maybe more difficult that using the nuclear. People need to know in a thousand years or two thousand years ago, our ancestors had dreamed of flying in the sky and today all has came true. Where there is a goal, there is effort, one day the ideal can be achieved.

The crustal thickness is 10~40km, depth of mining and oil are no more than the thickness of the crust. If human would explore geothermal energy, at least through the earth's crust. Of course, we cannot touch the core in case of any disaster. What is the suitable depth? According to the center core temperature 6000 °C, calculate the temperature in different depths. The depth we need is subject to temperature we need. People use geothermal energy for heating and power generating it can also generate the excess heat within the region away. After people understand how to use geothermal energy, it means

people are getting near to avoid earthquake and volcano and achieving the dreams of conquering nature. Hope that scientists around the world would spend efforts to this end.

May 20, 2012

**To learn from other creatures living in the solar system and speed up the develop of human civilization (Paper 11)**

Guo Xuannian Water Conservancy Bureau, Zhuzhou, Hunan, China

**Abstract:** *Geophysics and Celestial motion Heterodoxy* believes that the heliocentric theory is wrong so as to the planets traveling around the sun and the planets around satellite. People on earth can only see half of the sky. The solar system has more than half of the planets that haven't be found, which could be proved by UFO and USO. Legend shows that UFO and USO have visited the earth in the past hundred years. It is said that ET have visited the earth. In fact, people not living in the solar system cannot reach to the earth. If ET does exist, they must living in the solar system. So the heliocentric theory is wrong. It is unnecessary that some people are afraid of an alien invasion of earth. Since the alien technology is more advanced than the people on earth they will be more civilized so they won't invade earth. On the contrary, we need to contact and learn from them to promote the development of the earth.

**Key words:** Correcting the heliocentric theory; Search for solar human; Learn from them ; Promote the development of the earth

Objects (celestial bodies) are attractive and have suction resistance to other relative moving objects so we can say planets revolve around the sun and satellites around the planets. Heliocentric theory is wrong. Stars, planets and satellites all are moving independently. Because the earth is not traveling around the sun, so we can only see half of the sky. The solar system has more than half of its planets that not be found. If UFO and USO are aero crafts by which space aliens visit Earth. Then it is proved that the alien is living in the solar system. The nearest whale star  $\tau$  to earth is 12 light-years distance. Even if the spacecraft flight speed reaches the speed of light, it will take 12 years for people of whale star  $\tau$  came to earth. It is ridiculous for people living twenty-seven thousand light years away from the earth's to visit earth. The man-made satellite speed does not exceeding 16.7km/s, let alone making a aero craft with light speed.

If UFO and USO do exist, then ET must living in the solar system. There spacecraft reached a speed of 10000km/s, still does not fly out of the solar system proving that heliocentric theory is wrong. With such aero craft, they can reach to the earth in a very short time. Life only exists in those unknown planets which is about 150 million km to the sun. The linear distance from the earth is about 300 million km. If go curve (cannot pass through the sun) is only 470 million km, so the visiting is possible. If human beings in the north the aliens in the south of the sun, or above and below the sun. It is wrong to consider the weekly displacement of the earth on the north side of the sun to be a week's traveling around the sun. If people were to crack the mystery of celestial bodies' movement, they could build an aero craft with speed of 15km/s. It takes about 362days to reach to the south end of the sun. Not only can verify the earth revolution speed is 29.8km/s, the sun's speed is 250km/s is correct or not, we can also set up a telescope in a spaceship, observing planets and satellites to the south end of the sun. Finding the existence of human living 150 million km away from the sun is of extraordinary significance.

Planets at the south of the sun could prove the existence of UFO and USO, and that aliens belong to the solar system. Since people had found UFO thousands of years ago, this proves that aliens at the south of the sun are at least one thousand years more advanced than us. British scientist Hawking mistakenly believes that we should not annoy aliens, while I think the development of human society follows the same rule from backwardness to advancement and from savage to civilization. Western European countries abandoned cold arms and animal power and produced modern weapons and ships to invade other countries. When their capitalism is becoming mature, modern science and technologies are used for invasion, representing a huge step forward in human civilization. Modern capitalist countries have promoted the economy of colonial countries and regions and brought forward capitalist democratic and legal society in them. Fact proves savageness and violence come from autocracy and backward productivity, and civilization nurtures democratic political system and improvement in productivity.

Since aliens are thousands of years more advanced than us, their society is also much superior than ours, as well as their science and technology, productivity and spiritual civilization. Since they had visited earth, they could easily bring harm to us if they wanted to. This shows that aliens are no longer concerned with survival or development and could even move adjacent planets for their use. So it's totally unnecessary to worry about their invasion. Since they

could visit us thousands of years ago, worries or prevention is useless, so we could only believe their advanced civilization and humanity.

During the Zhengguan period, Li Shimin dispatched Xuanzang to seek for Buddhist sutras in India. It's a real feat since he didn't understand their language and could walk or sit on animals in the 19 years. He relied on charities from other people since he had no money and would not be robbed. Also, it's recommended in Buddhism to do good things, help others and promote Buddhist culture so as to achieve harmonious coexistence. This is the reason for Li Shimin to promote Buddhist culture and the strong belief of Xuanzang. The most effective measure to bring back people's integrity in today's corrupted society is through the use of Buddhist mind and spirit.

Since aliens are most advanced than us, we should learn from them by all means. Now our work should be to design a spacecraft that could fly for 2 years (limited by speed), and dispatch a peace envoy like Xuanzang (including scholars and scientific workers) to get to the south side of the sun and look for planets and aliens. Although we don't know their language or words, we could express our friendliness through pictures and signs. Aliens could be our friends once they know what we are for. The most important work in spatial research now is to find aliens. Once a friendly partnership is established, it could help us save many detours and advance rapidly.

May 30, 2012

**Missing the study to displacement track of self-rotation object, human being misunderstood the motion of celestial bodies (paper 12)**

Guo Xuannian Water Conservancy Bureau, Zhuzhou, Hunan, China

**Abstract :** there is no linear motion existing on the surface of the earth (including other celestial bodies) or moving objects under the range of gravity, and they are making curve motion. While studying curve motion, the physicists have been missing the study on motion track of self-rotation object, so as to make human being misunderstand the form and displacement track of motion of celestial bodies, generating wrong heliocentric theory, Kepler's law and the law of gravity....., misguiding human being's cognition to on-the-ground object mechanics and celestial bodies mechanics, which is hard to be corrected.

**Key words :** displacement track of moving object with non-uniform self-rotation is a curve; displacement track of the object (celestial

bodies) with uniform self-rotation is round. Self-rotating object and celestial bodies can both generate centripetal force, and circling motion doesn't need additional action of centripetal force.

Earthmen have created physical civilization and spiritual civilization, breaking the limitation of the earth, going towards solar system and outer space and universe, and there is leap development for technology and human being's cognition. Studying physical geography and the motion of earth object, earthman can't forget the limitation of geomagnetic field, and there is no universe magnetic field in outer space, and there is essential difference between motion of the object on the earth and motion of celestial bodies, i.e. the object on the earth has both mass and weight, but celestial body has mass without weight, the two is not allowed to be confused, it is easy to get wrong conceptions.

The education is to teach the later generations with successful culture and science knowledge made by the predecessors, not repeating the mistakes that the predecessors made. There is both universality and particularity for culture and science knowledge, and it is particularly prominent in terms of liberal arts taking falsehood as truth, so is science. For example: the motion of earth object refers to the motion of the object on the surface of the earth or under the range of gravity, because the object has its gravity, which can generate resistance including attraction, friction and air resistance etc, earth object only has static inertia, instead of motion inertia; Because the earth is an elliptic sphere, whose gravity is decaying from strong to weak, with its extreme zero, if valid distance of earth gravity is measured( gravity acceleration is zero distance), mapping magnetic force line of the earth, magnetic force line of the earth is an elliptic sphere being expanded for several times from original size; then, there is no linear motion for the motion of object on the surface of the earth or under the range of the gravity, but only curve motion track, so-called linear motion, which is only a kind of assumed ideal motion form. Linear motion ignores earth's curvature and gravity of the object, and linear motion is only the motion of object or celestial body (very small fragment) in outer space, not affected by the gravity of other celestial bodies. Since the object is only doing curve motion on the ground or under gravity range, there is no linear motion, and physics course can only simply introduce linear motion, which should focus on introducing curve and circle motion. However, the textbook of physics is just opposite, focusing on linear motion, instead of pointing out that there is no linear motion for the object on the earth, and promoting so-called Newton's three classic laws with falsehood in exaggerating manner.

Under misguidance of Newton, people just know that Newton discovers the earth (celestial body) has gravity; instead, the gravity has not only attraction driving force, but also attraction resistance. Astrophysics circle never admits the existence of the resistance. Newton also disgraces the difference between motion of the object on the earth and the motion of celestial body, unifying on-the-ground object mechanics and celestial body mechanics, realizing the first great integration in physics history, which is totally wrong, but also misguiding human being on the earth for nearly 300 years, it is reluctant to be identified and corrected by now.

Physics textbook in senior high school believes: the direction of velocity in curve motion is changing from time to time; the direction of velocity of the particle in one point (or one moment) is tangent direction of the curve in this point. Because the velocity is vector, there is both size (quick/slow), and direction, whether the size of the velocity is changed or not, as long as the direction of the velocity is changed, which means velocity vector has been changed, i.e. with the acceleration. The direction of velocity in curve motion is changing from time to time, so curve motion is non-uniform motion. The strict definition is: curve motion is the motion that the particle is changing its motion direction continuously.

It is the most common thing that the object is doing curve motion on the ground or under the range of gravity, which is also major motion form; unfortunately, physics textbook only lists the simplest three curve cases. Firstly, tossing (horizontal projectile) object test, and tossed (horizontal projectile) object is doing curve motion due to the action of gravity; secondly, the object is moving along ideal linear direction, if moving object is impacted by action force or attracted by the gravity by the side, it will change into curve motion; thirdly, the object is doing circle motion, which is special form for curve motion.

It is not comprehensive that these three tests represent all the curve motion, and textbook believes that these three tests indicate: while the direction of combining force imposed to motion object is not in the same straight line with its velocity direction, the object will do curve motion. The acceleration direction of motion object is the same as the direction of combining force imposed to it. Therefore, acceleration direction of the object doing curve motion and its velocity direction are not in the same straight line. Whether above conclusion is correct or not, it must study all the curve motions.

It is unilateral for the physicists to study curve motion, only studying simple curve motion, abandoning complicated curve motion, only learning about little knowledge about curve motion. For example, spiral line motion is a kind of complicated

curve motion, which is excluded in the study; as well as the most common spinning top, representing displacement curve of self-rotating object, which is also being ignored.

Is this the ignorance of physicists, or some other hidden facts, anyway, there is no such thing in the textbook of physics. Because sphere celestial body has the characteristics of uniform self-rotation, Guo Xuannian studies curve motion of rotating object, e.g. round cake, cylinder, sphere and top etc whose ratio between the diameter and height is less than 1, in smooth horizontal plane, demonstrating through model test, the object rotating with certain velocity can't be rotating in fixed point, which can generate displacement; displacement track of the object that can't keep uniform rotation is curve, and displacement track of the object that can keep uniform rotation is circle. For example, if the time of its uniform rotation exceeds the period of displacement circle, mechanical top will make circle motion round and round, moreover, top axis is not tilted, with small diameter of displacement circle, vice versa.

Because all the object motion on the surface is affected by G-force, besides its mass, the object also has gravity; therefore, it generates attraction resistance, friction and air resistance. If motion object is not supplied with energy, which can only do deceleration motion and finally going under still status.

To prove that displacement track of rotating object is circle, there are two kinds of schemes: firstly, making one sphere with mechanical energy (with electromagnetic energy as energy) as driving force, making it generate uniform rotation, placing it onto smooth horizontal plane, and people can see its circle track; secondly, placing this sphere rotating with uniform velocity into the lab in outer space, or tossing into outer space to let it be rotating, we can see its round displacement track. Connecting to the fact that sphere celestial body can make uniform self-rotation, we can work out the mystery of celestial body motion, making heliocentric theory collapse itself.

It is hard for a civil amateur to complete aforesaid experiment; I can only reveal the problems existing in astrophysics simply in terms of theory, for research units, experts and scholars to do further study. If the relationship between displacement track diameter of uniformly rotating sphere and mass and velocity of sphere's equator line is measured in the lab of outer space, displacement track diameter of celestial body can be calculated, then, many mysteries will be worked out. Before the sprouting of capitalism, human being's cognition and understanding to natural phenomenon are mainly to hunch based on superficial phenomenon, or making superstition to justify themselves. In 17<sup>th</sup> century, western countries entered into capitalism society, although human being still

can't realize aeronautics and astronautics, but there was astonishing progress for science and technology. The scientists walked out of spiritualism in terms of hunch and superstition, developed into demonstration (experiment) and calculation, and gradually established the methodology of logic deductive method. Modern human beings haven't unveiled the mystery of celestial body motion, with three aspects of reasons: firstly, missing the study to displacement track of self-rotating object; secondly, not studying electron motion deeply, measuring the distance between the electron and the nucleus (proton) through experiment, demonstrating if there is limitation for the distance that the electron is rotating around the nucleus; thirdly, Newton didn't prove the law of gravity with the experiment, unifying and integrating on-the-ground object mechanics and celestial body mechanics, misleading the astrophysicists.

Human being's cognition to the thing is always from the surface to the inner, which takes time. Ptolemaic came up with geocentric theory, there was no telescope at that time, just observing the stars with naked eyes, which can't judge remote celestial bodies were self-rotating and displacing or not, only seeing the rise of the sun and the moon at the east and fall at the west, just asserting that the earth is the center of the universe (standing still), and the sun and the moon were rotating surrounding the earth. Coming up with geocentric theory was not the mistake that Ptolemaic made himself, because it was recognized by the people, mainly because science and technology lagged behind at that time, it was hard to derive correct answer by observing and hunching and deducing celestial body motion.

Because solar system celestial body motion figure made by Copernicus was too complicated, plus a great deal of epicycle, which was not realistic, therefore, coming up with heliocentric theory and denying geocentric theory. Now, it is over 400 years after the death of Copernicus, there is astonishing development for science and technology, and human being realizes aeronautics and astronautics, and contemporary astrophysicists treat heliocentric theory as worldwide recognized truth instead of trying to demonstrate heliocentric theory, this is very similar to the fact Rome Catholic Churches safeguard geocentric theory. So far, astrophysicists can't explain why celestial bodies can make rotation and revolution (displacement), and mutual attraction between two objects(celestial bodies) can both generate mutually close attraction driving force, but also attraction resistance impacting self-rotation of object(celestial body). Because it is impossible to realize effective distance owned by attraction force of any object and celestial body, so that it is impossible to realize that heliocentric theory is wrong. By his hunch,

Copernicus came up with wrong heliocentric theory, however, it is advanced than geocentric theory, which is class I step for learning about celestial body motion, and people should find the truth of celestial body motion instead of blaming Copernicus. During 1960s and 1970s, Chinese physics textbook treated the star as constantly still celestial body emitting light and heat, Copernicus and Kepler certainly didn't know that the star can make rotation and displacement. No wonder Kepler believes that the sun is in one focus of all planets' elliptic orbits in solar system. Current astrophysicists haven't explained celestial body motion, not to mention the hunch of Copernicus, Kepler and Newton, and the problems that they didn't solve should be solved by their successors.

The study of science and technology can't cross the era and abandon unstudied problems, even miss the existence of representative thing. If the physicists study curve motion of earth object without missing the study to displacement track of rotating object, they will find out displacement track of uniformly rotating object is round, whose self rotation can generate centripetal force, without additional action of centripetal force. If Copernicus knew track characteristics of uniformly self-rotating object, he wouldn't come up with heliocentric theory that the planets are revolving around the sun; if someone studied effective distance of attraction resistance and attraction force, Newton wouldn't come up with ridiculous the law of gravity. The astrophysicists won't mistake that the planet is revolving around the sun only because of attraction force of the sun, instead of studying other motion method of celestial body. It may be possible that someone has known that displacement track of uniformly self-rotating object is round, due to being contradictory with heliocentric theory; he/she can't come up with new theory for celestial body motion, abandoning the study on displacement track to uniformly self-rotating object, conducting science fraud.

If people recognize argument III, they will know that celestial body shrinking into sphere by itself can be uniformly self-rotating, and circle track comes from self-rotation displacement, three laws made by Kepler can't come into existence. People find out the difference existing between celestial body motion and earth object motion, and celestial body motion doesn't need centripetal force due to circle motion with uniform self-rotation, and centripetal force formula  $F = m \frac{v^2}{r}$  has no meaning to celestial body motion.

It is not correct for calculating earth object to do circle motion, and earth object on the ground is doing circle motion, the gravity is balanced with the support of the ground or orbit; like weight throw, due to the action of

gravity, whose centripetal force  $F \neq m \frac{v^2}{r}$ , but

$$F = \sqrt{\left(m \frac{v^2}{r}\right)^2 + (mg)^2}, \text{ assuming } m=1, \text{ then}$$

$$F = \sqrt{\left(\frac{v^2}{r}\right)^2 + g^2}. \text{ The physicists don't distinguish}$$

the difference of celestial body and earth object doing circle motion, which is mainly misguided by the unification and integration of celestial body mechanics and on-the-ground object mechanics.

Through above analysis, we can know that, the object without uniform rotation doesn't need the action of centripetal force, which can also do irregular curve motion, whose curvature is relevant to its weight, mass and linear velocity. Due to having attraction resistance, the gravity will generate friction resistance, plus the action of air resistance, whose self-rotation and displacement velocity will decrease, until being still. Secondly, uniformly self-rotating object leaving effective distance of earth gravity can shrink into sphere-shaped celestial body (not interrupted by other celestial bodies), they will keep displacement and do circle motion round and round, and there is direct ratio between track diameter, mass and rotating linear velocity.

If the physicists have studied displacement track curve motion of self-rotating object, they can derive that uniform self-rotating object is doing curve motion, and uniformly self-rotating object is doing circle motion, and self-rotation can generate centripetal force. Thus, sphere-shaped celestial bodies in the universe can do circle motion on their own, without additional centripetal force. The moon is revolving around the planet, and the planet is revolving around the sun, and the sun is revolving around Milky Way...which can't come into existence. Even if heliocentric theory was came up with earlier, people would also break the superstition, try to demonstrate the truth. The simplest demonstration method is to do model experiment, because experimental size of solar system is enormous, people can abandon Jupiter-like planets, only doing experiments for earth-like planets, the problems that don't exist in heliocentric theory can be found. The astrophysicists can't do the experiment for earth-like planets in solar system, and they are not sure about heliocentric theory, without confidence for successful experiment.

Unfortunately, current physicists are reluctant to accept new opinions that attraction resistance and attraction force have effective distance, and uniformly self-rotating objects and celestial bodies can displace circle track etc, stiffly defending heliocentric theory, Kepler's law and the law of gravity, who can't explain

the heliocentric theory which can't justify itself, undoubtedly, it resisted the birth of new theory for celestial body motion. The facts show that it is hard to correct worldwide political mistake, as well as worldwide scientific mistake, which shows that lagging behind and conservative momentum is still powerful. However, people should believe that actual scientific results can't be disgraced forever, with the progress of human being's technology, the truth will be unveiled, and it is difficult work for shortening zigzag journey and making the results be recognized by the whole world.

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**Exploring electron motion and Coulomb formula, denying the law of gravity and heliocentric theory (paper 13)**

Guo Xuannian Water Conservancy Bureau, Zhuzhou, Hunan, China

**Abstract :** the mystery of generating molecule and matter can be known after recognizing that magnetic field can be generated while the electron is revolving around the nucleus, and self-rotation and displacement of celestial body is also because of electron motion. During the times of Newton, human being can't realize aeronautics and astronautics, and Newton can't measure limited extreme distance of celestial body gravity. The gravity of celestial body will be decaying from the close to the remote; there must be the distance that the gravity is zero. Coulomb formula and gravity formula are similar, only the difference of charge volume and mass, as well as constant. The work the Newton can't complete can be completed by Coulomb studying charge in the lab, and Coulomb may be misguided by Newton, who didn't study effective distance of mutual attraction and repulsion of the charge between two points, so that he can't unveil the mistake that infinite remoteness of the law of gravity can be attracted mutually.

**Key words :** mutual attraction and repulsion between celestial bodies, matter and charge have effective distance, and it is wrong to make mutual attraction and repulsion while there is infinite remoteness. The law of gravity and Coulomb law can both test effective distance of r, which supplements and completes these two laws, with more practical meaning.

Electron motion is not only the source of matter and life, but also the root for the motion of celestial body. Electromagnetism derives the conclusion, there are only two kinds of charges: positive charge and negative charge (the proton of the nucleus is positive charge, and the electron revolving the nucleus is negative charge), and the same kinds of charges are repulsed mutually, and different kinds of charges are attracted mutually. The size of charge is called charge volume. Generally, charge volume of positive charge is expressed by positive number, and charge volume of negative charge is expressed by negative number.

The object can be with electricity by the method generating electricity with the friction. Glass bar with the friction by the silk has positive charge, and rubber bar with the friction by the fur has negative charge. Because the friction is a kind of thermal motion, and glass bar after friction has positive charge, and the silk absorbs the electron of glass bar, and the decrease of negative charge makes positive charge lose its balance, and glass bar has positive charge; similarly, solid rubber bar has negative charge, because of absorbing the electron of fur. It demonstrates that it is not stable structure for the electron revolving around the nucleus (proton), and the electron can be separated from the nucleus and escaped away through thermal motion or other form. Because electric field is transforming into magnetic field due to the electron revolving around the nucleus, and the atoms with magnetic field combine into the molecules, which form the substance, object and celestial body, the combination of magnetic field is strengthened, then having attraction. Whereas, magnetic field of the earth (celestial body) is combined reflection of molecular magnetic field, there is inseparable connection between electron motion and celestial body, and it can be said that electron motion is only driving force factor for the motion of celestial body.

Newton came up with the law of gravity (expression:  $F = G \frac{m_1 m_2}{r^2}$ ), only emphasizing mutual attraction of celestial body(object), not referring if they have mutual repulsion( there is mutual repulsion if the same pole is opposite), not considering the attraction of object(celestial body) is decaying from the close to the remote, there is the distance that the extreme value is zero, formula of the law of gravity calculates mutual attraction of two remote celestial bodies(objects), never equal to zero, violating mathematical principle, which is undoubtedly wrong. There is neither theory deduction nor experimental demonstration for the law of gravity, and gravity constant is the show of Cavendish, which is totally hunch and assumption, can't be taken as truth. If people know rotating direction of celestial

body, they can know north and south pole of magnetic field of celestial body, assuming the same poles of two celestial bodies are opposite, which are mutually repulsing instead of mutually attracting, Newton didn't consider the existence of this scenario.

For the times of Newton, he can't test effective attraction distance of celestial body, and the direction of two poles can't demonstrate mutual attraction or mutual repulsion of two celestial bodies. If Venus is reversing, the direction of its magnetic pole is just opposite to the earth, and positive pole of the earth is facing north, but positive pole of Venus is facing south. If Uranus is rotating horizontally, whose magnetic pole should in east-west direction, it hasn't been proved if neighbored Saturn and Neptune have repulsive action. Being limited by the times, Newton's assumption and hunch are understandable. However, current astrophysicists can't be obsessed with heliocentric theory and the law of gravity, and it needs to conduct test and experiment demonstration using current high-tech method, working out skeptical problems, correcting wrong conception, and it is the attitude that the scientist should have.

French physicist Coulomb (1736-1806) studied electric power of mutual action between the charges, discovering following law in 1785: Electric power of mutual action between the charges of two points in the vacuum, forming direct ratio with the product of their charge volume, forming inverse ratio to their distance, and the direction of action force is in their connection line. However, he didn't do the relationship between the separation of electron and nucleus and temperature.

This law is called Coulomb law. Electric power of mutual action between the charges is called static electric power or Coulomb force. Point charge said in Coulomb law refers to the distance between the objects with electricity is much bigger than their own size, so that the impact to mutual action force made by the shape and size of the object with electricity can be ignored, and the object with electricity like this can be regarded as point charge. This is that the definition of point charge is relevant to the distance between two charges. If charge volumes of two point charges are expressed with  $Q_1$  and  $Q_2$ , the distance between them is expressed with  $r$ , and mutual action force between them is expressed with  $F$ , Coulomb formula as follows:

$$F = \kappa \frac{Q_1 Q_2}{r^2}$$

There is incomplete part for Coulomb formula, firstly, not defining  $Q_1$  and  $Q_2$  are positive charges or negative charges, or one positive point charge and one negative point charge, this is involved of mutual attraction or mutual repulsion; secondly, not giving

maximum value of the distance, if the distance between two point charges is several meters, do they still need electric power with mutual action? Comparing with formula of law of gravity and Coulomb formula, it is also general similarity and little difference, and general similarity:  $F$ 's unit is N, and  $r$ 's unit is m, not explaining the nature that  $r$  has infinitely small and infinitely big; little difference:  $m$  expresses mass,  $Q$  represents charge volume, thus, deriving constant unit:

$$G = 6.67 \times 10^{-11} N \cdot m^2 / kg^2, \quad \kappa = 9.0 \times 10^9 N \cdot m^2 / c^2$$

Coulomb is born 93 years later than Newton, whether there was calculation formula of gravity firstly and then Coulomb formula, and Coulomb may be inspired by calculation formula of the law of gravity, made the same mistake as Newton did, i.e. two celestial bodies (objects) can be mutually attracted in infinitely remote distance, then two charge volumes can also have electric power of mutual action in infinitely remote distance. Coulomb didn't discover conception mistake of Newton, so that he repeated the same mistake.

Assuming human being firstly studied point charge, electron motion, then celestial body motion, not only Coulomb formula will be further completed, but also Newton wouldn't reveal that heliocentric theory and Kepler's law are wrong.

There were no aeronautics and astronautics in Newton times, and human being can't move celestial bodies, and Newton can't measure the distance that acceleration of gravity of enormous celestial body is zero, in order to explain heliocentric theory, hunching the attraction of celestial body can be infinitely remote. Not misguided by the law of gravity, in the lab, Coulomb can find effective distance of action electric power of mutual attraction and mutual repulsion between two point charges, deriving electric power of mutual attraction and mutual repulsion between two point charges, which is relevant to their distance limit and charge volume. Comparing to mass of celestial body, point charge is infinitesimal, and Coulomb can adjust the distance of two point charges including positive and negative in the vacuum into certain value, they won't be attracted each other; similarly, adjusting the distance of point charges with the same electricity to certain value, they won't be mutually repulsed. According to data, Coulomb can establish the formula on the relationship between charge volume, distance and action electric power, and distance  $r$  can't be infinitely remote, then completing Coulomb formula.

Because magnetic field of celestial body is generated from electron motion and attraction force of celestial body is reflection form of magnetic field force. The calculation of mutual attraction of two celestial bodies is to derive effective distance of respective attraction between two celestial bodies,

assuming attraction effective distance of  $m_1$  is  $r_1$ , attraction effective distance of  $m_2$  is  $r_2$ , only while the distance between to celestial bodies  $r \geq r_1 + r_2$ , mutual attraction or repulsion force between the two celestial bodies is zero, and the formula of the law of gravity doesn't have calculation meaning. Even if  $r < r_1 + r_2$ , not only the formula of the law of gravity should be corrected, but also attraction constant measured by torsion balance experiment of Cavendish lacks of scientific basis. Argument IV come up with the fact that  $G$  is a variable, instead of constant, the mass of celestial body measured by constant  $G$  measured by Cavendish is 20-30% bigger at least, and  $G$  is not reliable totally, and there is bigger error being used for calculate object mass under the range of earth gravity.

The mass of the astronaut Niu Haisheng was 67kg, and Wang Yaping presented how to measure the mass of the astronaut in outer space in the school-teaching in outer space, with the identity of *assistant*, Nie Haisheng demonstrated personally, showing the mass 74kg. Health experts from US NASA said, weight of the astronaut is reduced by nearly 5% for them to execute assignment in outer space for every time. Therefore, the mass of Nie Haisheng should be 63-65kg, and the mass measured is 74kg, with error 16.26%. Does mass tester use constant of gravity  $G$  of Cavendish? If it is used, it proves that gravity constant  $G$  is bigger and  $G$  value is not reliable.

The rotation of the electron circling the nucleus (proton and neutron) breaks the law of conservation of energy, which is worth further study by the physicists, finding out the mystery of it. History proves that the question raiser doesn't have to solve the problem, which needs the successors to work out in dozens or hundreds of years. Copernicus came up with heliocentric theory, but he can't prove heliocentric theory, nor do simulations experiment; Newton published the law of gravity, but he can't prove its correctness; even gravity constant  $G$  recognized by himself can't be realized. The facts show that many technology problems need the progress of technology and time for solution, even there is repetition, e.g. geocentric theory is denied by Copernicus, today, Guo Xuannian challenges heliocentric theory, Kepler's law and the law of gravity. Like celestial body motion, the rotation of electron circling the nucleus breaks the law of conservation of energy, as well as comprehensive denial to unification and integration to celestial body mechanics and on-the-ground object mechanics made by Newton, why not challenge the conclusion made by Newton? Electron rotation can break the law of conservation of energy, it is estimated that there is neutral distance between the electron and the proton, and the electron is under neutral orbit, which can't be

attracted to the nucleus, nor leaving the nucleus easily (excluding foreign force), and attraction driving force and resistance given to the electron in neutral orbit, therefore, which can rotate around the nucleus perpetually.

Essentially, charging by friction is charging by separating the electron from the nucleus. Charging by thermal motion also embodies as evaporation of water, under the action of temperature, water will vaporize into steam, there are a lot of electrons out of the nucleus in steam group (cloud cluster), making the cloud contain a lot of positive and negative ion, raining under proper temperature, and generating lightning and thunder. Guo Xuannian also thought about measuring electron flow in steel water, which can't be realized due to without instrument. Celestial body shrinks into the sphere due to attraction, generating high temperature due to inside pressure, and high temperature makes the electron out of the nucleus and then generates electron current, and self-rotation of celestial body is the action of current, and displacement (revolution) is necessary result of uniform self-rotation. In order to demonstrate that celestial bodies can't be mutually attracted in infinitely remote manner, and the distance between the electron and the nucleus can be expanded manually, measuring the minimum distance that the electron can't rotate around the nucleus, which also demonstrates that the planet can't revolve around the sun infinitely and heliocentric theory can't come into existence.

According to charge conservation law, the charge can't be created, nor eliminated, which can be only transferred to another object from one object, or transferred to another part from one part of the object, during the process of transfer, total volume of the charge remains unchanged. Thus, if human being wants to get electric energy serving their production and living, because the charge can't be produced, only making the charge flow and generate electric energy, and only method to generate current is to make potential difference(voltage), making the electron flow. According to the characteristics of electric field and magnetic field conversion, current can generate magnetic field, and magnetic force line for the conductor to cut magnetic field can generate current, and the generator is invented using the conductor to cut magnetic force line, which can drive electron flow (current). Thus, the generator is not to make charge, only make the electron flow, and current is formed by potential difference generated by the generator, while the generator stops rotation, the electron will stop flow.

Under the action of potential difference, physics textbook doesn't introduce whether the electron is flowing out of the nucleus, or the flow of nucleus



containing proton, it is estimated that it is the flow of electron. Driving the running of the electron needs to continuous supply of the electron, forming cycle of the current. Since the earth is a conductor and enormous capacitor, earth matters and water can supply the electron required by the generator, and the electron can be adjusted inside the earth, therefore, the generator has continuous electron supply. Astrophysicists haven't known the reason why there is self-rotation and displacement (revolution) of celestial body, and there is no electronics in Newton times, and the mystery can't be solved certainly, it is believed that the god drives celestial body motion.

Electron motion not only creates matter and life, but also the motion of celestial body and the two are closely connected, presenting perpetual electron motion and celestial body motion, which never stops. Now, human being can't master the motion of celestial body, but control the motion of point charge, according to effective distance of electron's rotation around the nucleus, effective distance range of mutual attraction or repulsion between two point charges, it is demonstrated that heliocentric theory derives from the hunch and assumption, and infinite attraction of the law of gravity is ridiculous. To demonstrate effective gravity distance of celestial body and motion of celestial body from small to big, is scientific methodology, which is more reliable than the hunch and superstition, and astrophysics circle can try that.

In terms of charging by friction, people realize that thermal motion can make the electron flow, and work out the instrument to measure electron flow generated from thermal motion. Firstly, people can measure electron flow in steel water, demonstrate the existence of electron flow, and then try best efforts to unveil the mystery of self rotation and displacement(revolution) of celestial body. The physicists have the conception that thermal motion can generate electron flow, also complete this experiment in the lab, and it is estimated to reach this purpose totally.

August 5<sup>th</sup>, 2013

### **III Challenging heliocentric theory, Kepler's law and the law of gravity, coming up with new theory for the motion of celestial bodies( paper 14)**

Guo Xuannian Water Conservancy Bureau, Zhuzhou, Hunan, China

**Abstract :** heliocentric theory, Kepler's law and the law of gravity all have the problems of self-contradiction and the problems that can't justify themselves, promoting the motion of celestial body into abysm of superstition, which is still there. Guo

Xuannian comes up with new theory of motion of celestial body, breaking the limitation of solar system, which can not only unveil the mystery of motion of celestial body, but also explain various natural phenomenons reasonably.

**Key words:** celestial body can generate electron flow due to inside thermal motion, which make it displaced due to uniform self-rotation. The attraction of celestial body has effective distance, which can't be infinitely mutually attracted; celestial body has attraction force, as well as attraction resistance; sphere-shaped celestial body can make its respective circle motion.

While earthmen are studying the motion of celestial body in solar system, there are two kinds of opposite opinions including geocentric theory and heliocentric theory. Geocentric theory is convinced that the earth is the center of the universe, which is standing still, and the sun, the moon and other planets are revolving around the earth. Heliocentric theory is opposite, which believes that the sun is standing still, the earth and other planets are revolving around the sun. In fact, these two statements are both wrong, firstly, they hunch the motion of celestial body as a whole with solar system, which is to represent the plane with one point, with its limitation; secondly, they don't know why the planets (celestial bodies) are rotating and revolving, whose imagination is totally wrong; thirdly, the people at that time don't know that the star can rotate and revolve too, and star is believed to be still. Since there are wrong conceptions in these three aspects, and Ptolemy and Copernicus are not gods, who can't find correct answer for the motion of celestial bodies.

In the times when science and technology were lagged behind, human being didn't know the mystery and truth of the things, who replaced them with superstition and adoration. The facts show it is very hard to crack down superstition and adoration, correct one worldwide mistake and establish correct theoretical system. The battle in science and technology is very fierce, if this is political argument, even causing killing. Clarification and identification can be made waiting until overall progress of technology and civilization. Guo Xuannian challenges heliocentric theory, Kepler's law and the law of gravity, which is the opinion different from the whole world, and the resistance involved is unthinkable, and he wants to determine new theory with its spear to stab its shield. There is old saying in China "self-contradiction" coming from *Haifeizi-Shinan*: " People has its spear and shield, bragging about his strong shield, saying: " it can't be stabbed by anything! Then, bragging about its spear, saying:" my

spear is too sharp to stab anything!” People said: “What if we stab your shield with your spear?” He can’t answer.” Wrong theories and doctrines have self-contradictory and mutually-opposite conditions, but they will be broken if we challenge heliocentric theory with this methodology!

Copernicus didn’t know why celestial bodies were self-rotating and revolving (current astrophysicists, either), nor celestial bodies had attraction, and he said the planets revolving around the sun was just hunch and assumption, which was not reliable; he can’t establish mathematical logic deduction, at least he should do simulation experiment for demonstration. Today, the astrophysicists getting superstition with heliocentric theory haven’t completed unfulfilled wish of Copernicus, it is believed that heliocentric theory is just superstition, covering the ignorance to the motion of celestial body. Secondly, observing the sun with space telescope, it is discovered that the sun not only has self-rotation, but also displacement. It can also demonstrate that the object with uniform self-rotation (as well as non-uniform self-rotation) can have displacement with model experiment, whose track is curve or circle, which demonstrates that three laws of Kepler don’t come into existence. Why do the astrophysicists deny Kepler’s law, continue to misguide the diligent students?

The most ridiculous thing is that Newton doesn’t know that the attraction of celestial body has effective distance; strictly speaking, effective distance of celestial body is the distance when acceleration of gravity is zero. Guo Xuannian believes that the size of the attraction force of celestial body is related to effective distance, and matter, mass and volume of celestial body and effective attraction distance is about 0.5-3 times of diameter of sphere. If the object and celestial body can be mutually attracted infinitely, which is an infinite combining force system, which can’t calculate mutual attraction of any two celestial bodies, nor the action of force imposed onto the object, in order to change its still or motion status, celestial body can only do Brownian motion, without any rules. Now, celestial bodies in solar system all present regular cycle motion, demonstrating that the attraction of celestial body has effective distance, and they are not mutually attracted, which can be demonstrated by the experiment. This is to demonstrate that the law of gravity is limited by effective distance, and it is impossible to realize mutual attraction in infinitely remote manner, demonstrating heliocentric theory and the law of gravity doesn’t come into existence.

**I The earth is revolving around the sun, and earthmen in north sphere can’t see north star every night, otherwise, the earth isn’t revolving around the sun.**

Whereas, Pluto has been always silent under endless darkness, it is proved that it is very far from the sun, and the light of sun can’t get to Pluto. If the light of the sun can cover Pluto, the known distance between the sun and the Neptune is about 4.5 billion km, and the diameter of the sun is 1.392 million km, and the diameter of the sun is 9 billion km. According to heliocentric theory, except Pluto, eight other planets and so-called moons are crossing inside enormous light ball of the sun, and average distance between the earth and the sun is nearly 150 million km, and the earth is running under the range of strong light sphere of the sun. The earth is running inside strong light ball, and there is only lightless tunnel with the diameter 12740km, with the length of 4.35 billion km on the dark side, and earthmen in north sphere can see the sky and North Star through this lightless tunnel, and sky phenomenon can’t be seen due to strong sunshine during the rest of time. Thus, if North Star is under upper and lower side of light sphere of the sun, the earthmen in north sphere can’t see North Star, only while horizontal section in dark side of North Star and earth is under the same direction, the earthmen in north sphere can see North Star. If the earth is revolving around the sun, there are 65-75% nights during which North Star can’t be seen. Only the earth is not revolving around the sun, but doing circle motion by the side of the sun, the earthmen in North Sphere can see North Star every night. Otherwise, North Star can be seen every night, proving that the earth is not revolving around the sun, and heliocentric theory doesn’t come into existence. If the astrophysicists don’t believe, who can do simulation experiment by making drawing on their own, taking North Star as the reference, but not proving that the fact the earth is revolving around the sun, thus, we can deny heliocentric theory.

**II Through model experiment and launching artificial earth and moon satellites, proving the existence of attraction resistance, and heliocentric theory doesn’t come into existence.**

Through model experiment, steel ball is doing linear or curve motion, without the disturbance of other attraction, and the stroke of steel ball is long. If plus symmetrical magnet by two sides of steel ball track, under the driving force of the equivalent action force, the stroke of steel ball is shortened. This proves that motion matter cuts gravity (magnetic force) line, it is under the action of attraction resistance, so as to decelerate and shorten the stroke and become still (see experiment II). The sun and the earth are mutually attracted, and self-rotation and revolution of the earth need to gravity line cutting the sun, and the earth is imposed by attraction resistance of the sun, whose self-rotation and revolution velocity will decelerate, finally integrating into the earth and the sun. The fact

is not like this, it is proved that the sun and the planet are not mutually attracted, and the planet is not circling around the sun, and heliocentric theory and the law of gravity don't come into existence.

People don't believe in attraction resistance, it is believed that the velocity of artificial earth satellite reaches 7.9km/s, capable of revolving the earth for several circles. In fact, on-the-ground object motion is mainly friction resistance on the ground, and the rising of artificial satellite gets rid of the friction resistance with the ground, due to great flying height, air resistance is extremely small, and main resistance is the earth's attraction resistance to the satellite. Artificial earth satellite can revolve around the earth, which is  $V_1=7.9\text{km/s}$ , storing flying energy. Cavendish experiment is disturbed by earth magnetic field, with 20-30% greater gravity constant  $G$ , undoubtedly, it

makes  $V_1$  more. Being known from  $V = \sqrt{Gm'/R}$ ,

the greater the  $G$  value is, the greater the velocity is; secondly,  $R$  is the radius of the earth, ignoring the distance between artificial satellite and the ground, undoubtedly, making the velocity greater. For the first artificial satellite launched by China, whose perigee is 439km, and apogee is 2384km, and average distance  $r$  is 1411 km, and enlarging  $R$  1411km, then:

$$V_1' = \sqrt{\frac{Gm'}{R+r}} = \sqrt{\frac{6.67 \times 10^{-11} \times 5.98 \times 10^{24}}{(6.37+1.411) \times 10^6}} = 7.16(\text{km/s})$$

Being known from the calculation, regardless the impact from greater gravity constant  $G$ , only the distance between the gravity and the distance, the first cosmic velocity is also 10% bigger, which is included into the factor that gravity constant  $G$  is bigger, and the first cosmic velocity is 18% bigger. This is kinetic energy storage of artificial satellite, even if the energy is not supplied; it is not surprising to circle the earth for several weeks. What can be proved is, there is attraction resistance if artificial earth satellite gets earth attraction, artificial satellite can't revolve the earth perpetually. In order to cover the existence of attraction resistance, the astrophysicists say that the earth has atmosphere, and artificial satellite falls into the ground because air resistance consumes the energy of artificial satellite.

In fact, this reason is ridiculous. China has successfully launched artificial satellite Change No.1 and Change No.2, and the moon doesn't have atmosphere, i.e. without air resistance. Reasonably, artificial moon satellite can revolve around the moon perpetually, the fact is, if artificial moon satellite is not supplied with energy, it will fall into the moon, it sufficiently demonstrates the existence of attraction resistance, i.e. artificial moon satellite gets attraction of the moon, it has weight, without  $F=ma$ , nor uniform motion, the earth gets gravity while getting attraction

from the earth, and other object gets attraction also has gravity, thus, the object with gravity has attraction resistance. Thus, the planet attracts the planet, and the sun attracts the planet, except mass  $m$ , the moon and planet also have gravity  $mg$ , i.e. getting the action of foreign force. Equating the motion of celestial body to motion of the object on the ground, since there is no perpetual motion machine, the motion of celestial body either, in fact, the motion of celestial body is under perpetual motion, thus, it proves that heliocentric theory and the law of gravity don't come into existence, and Copernicus and Newton limits themselves.

### III Because revolution velocity of earth-like planet is greater than the third cosmic velocity, it is proved that the planet is not revolving around the sun

According to the formula of gravity, formula of centripetal force and gravity force constant  $G$ , the astrophysicists calculate that the velocity of artificial satellite is greater than  $V_1=7.9\text{km/s}$ , less than  $V_2=11.2\text{km/s}$ , the track that it revolves around the earth is ellipse instead of round. Elliptical track is caused by the revolution (displacement) of the earth, which is not explained by the astrophysicists. In fact, it is convinced that the earth is revolving around the sun, and revolution velocity of the earth is 29.8km/s, and the velocity of artificial satellite is 7.9~11.2km/s, and it is impossible that the track of artificial satellite is ellipse, making figure according to composite motion, which is sword bean shape which can't be closed. The astrophysicists also point out that, while the velocity of artificial earth satellite is equal or above  $V_2=11.2\text{km/s}$ , it will be out of the gravity of the earth, not circling around the earth. If the velocity of artificial satellite is equal or above  $V_3=16.7\text{km/s}$ , it will fly out of solar system, entering into cosmic space. This indicates that flying velocity of the object and celestial body circling around the sun must be less than 16.7km/s, otherwise, it will get out of the gravity of the sun and escape.

Therefore, heliocentric theory exposes one serious issue that can't justify itself. Earth-like planets in solar system are circling around the sun, and revolution velocity of Mercury is 46.8km/s, and revolution velocity of Venus is 35.0km/s, and revolution velocity of the earth is 29.8km/s, and revolution velocity of Mars which is the furthest is 24.0km/s, i.e. revolution velocities of earth-like planets are all more than the third cosmic velocity 16.7km/s, why can't they fly out of solar system, still revolving around the sun? similarly, the revolution velocity of artificial satellite and revolution velocity of earth-like planet calculated with the law of gravity and formula of centripetal force are contradictory,

demonstrating that infinite attraction of the gravity and gravity constant  $G$  measured by Cavendish can't be used for calculating the velocity of the motion of celestial body. Calculating revolution velocity of artificial earth satellite, it is not out of effective distance of earth gravity and the disturbance of earth magnetic field, and cosmic velocities  $V_1$ 、 $V_2$  and  $V_3$  derived have their correctness. Because the distance between the planet and the sun is remote, planet velocity in solar system calculated is more than their effective distances combined, and the law of gravity can't adapt that, secondly, the planet is not disturbed by magnetic field of the sun, therefore, revolution velocities of all the planets calculated are totally wrong, from which the contradiction between different velocity of artificial satellite and revolution velocity of celestial body result.

#### **IV Coming up with new theory for the motion of celestial body**

Above facts demonstrate that heliocentric theory originates from the hunch, and Kepler believes the planets in solar system are circling around the sun in elliptic orbit, and there are neither theory nor fact basis for the sun is under the focus of all the elliptic orbits, nor experimental demonstration. The planets are not revolving around the sun, and all the celestial bodies with uniform self-rotation can displace circle track, there are perihelion and aphelion, with which Kepler believes that planet orbit in solar system is ellipse, which is unilateral speculation. Main difference between earth object and celestial body lies in, earth object has mass, and weight (gravity) due to the attraction of the earth, i.e. action of foreign force; celestial body has mass, without weight, which demonstrates that they are not affected by attraction force of other celestial bodies. Therefore, earth object only has still inertia, even if moving with the action of foreign force, it will stand still while stopping action force; Celestial body has motion inertia, demonstrating it never stops without the action of foreign force, that's the difference between the two. However, their motion forms are similar in certain degree, firstly, doing curve motion, which is hard to do linear motion; secondly, earth object with fast velocity is circling around the one with slow velocity, however, the motion of celestial body is opposite, and it can demonstrate that heliocentric theory doesn't come into existence.

Wrong heliocentric theory multiplies displacement diameter of the planet for hundreds times, which not only makes up revolution velocity of the planet in solar system, making revolution velocity of earth-like planet is much more than the third cosmic velocity 16.7km/s, causing the contradiction which can't justify itself; furthermore, the further the distance between the planet and the sun is, the smaller

its revolution velocity is, which is also unreasonable, regardless the action of planet mass and self-rotation linear velocity. For example: the volume of Jupiter is 1320 times of the earth, with the mass 318 times of the earth, and linear velocity of equator is 12.679km/s, which is 27.258 times of linear velocity of earth's equator 0.46511km/s, why is revolution velocity of the earth 29.8km/s, however, the revolution velocity of Jupiter is 13.0km/s? This kind of unreasonableness is caused by obsessing with heliocentric theory.

Through studying the motion of celestial body for long time and repeated demonstration, Guo Xuannian comes up with a kind of brand-new theory about the motion of celestial body—sphere celestial body generates electron flow due to internal thermal motion, which makes celestial body affected by the force, and then makes uniform self-rotation, displacing circle track from self-rotation. Therefore, sphere celestial bodies are making circle motion on their own, without the phenomenon that which is circling which. Not like geocentric theory and heliocentric theory, new theory is not limited to solar system, but the motion of all celestial bodies.

New theory on the motion of celestial body solves the problem that heliocentric theory, Kepler's law and the law of gravity can't justify themselves, breaking the mystery that earthmen can't explain the displacement and self-rotation of sphere celestial body for long time. Because the size of diameter of the circle displaced by celestial body depends on its mass and linear velocity of the equator, it can also demonstrate that it is wrong that the closer the distance between the planet in solar system and the sun is, the bigger revolution velocity is, vice versa, for example, displacement velocities of Jupiter, Saturn, Uranus and Neptune are bigger than displacement velocity. What's displacement velocity of the earth? According to the fact that the earth is revolving around the sun, and the moon is circling around the earth, with earth-moon relationship, we can estimate circle diameter of earth's displacement track is nearly 785023km, whose displacement velocity is 0.07815km/s.

It is to replace the mistake with another mistake if replacing geocentric theory with heliocentric theory, and heliocentric theory was recognized by the whole world by 60 years, and this demonstrates that stubborn conservative thought will be generated while one kind of wrong theory is recognized by the people. New theory on the motion of celestial body denies heliocentric theory, Kepler's law and the law of gravity, and overturns most of fundamental theories of physics mechanics, and the resistance to be encountered is much greater. The reason to be explored: heliocentric theory, Kepler's law and the law of the gravity have been for several hundreds of

years, making people form a kind of fixed conception, and it is hard for them to accept new theories; secondly, *culture revolution* said: the more the knowledge, the rebellious it is, which is wrong, however, the more the knowledge, the more conservative, no one wants to deny his/her own knowledge learned. Guo Xuannian is firmly convinced that the truth of the fact will be unveiled sooner or later, and the truth won't be sealed for long, therefore, I will adhere to calling, unremitting struggle, try my bests to raise research status of Chinese and earn honor for our country.

August 10<sup>th</sup>, 2013

**Challenging celestial mechanics, unifying with object mechanics on the ground, realizing the first integration in terms of physics history (paper 15)**

Guo Xuannian Water Conservancy Bureau, Zhuzhou, Hunan, China

**Abstract :** Newton made many contributions to math, physics and celestial mechanics, then constituting absolute authority (apotheosized by people). Later, he was obsessed with alchemy( not knowing chemistry) and theology, who can't conduct academic study and exploration wholeheartedly; thus, depending on his authority and confidence, he can't allow different opinions and school of thoughts, even misappropriating the achievements of others. Therefore, coming up with the law of the gravity without careful and cautious scientific demonstration, unifying and integrating celestial mechanics and on-the-ground object mechanics, is subjective assumption, misguiding the astrophysicists.

**Key words :** earth object has its mass and weight(gravity) due to being affected by magnetic field of the earth; celestial body without the action of cosmic magnetic field only has mass without weight, this is the essential difference between the two, which can't be unified and integrated.

Newton is recognized widely to make enormous contribution to the math, physics and celestial mechanics; he takes credit to him, misappropriating study results of others, moreover, publishing immature research results, taking the authority of the science. Using the superstition and adoration people have to him, using imagination and hunch to replace pragmatic excelsior spirit, therefore, there are many censures by the successors. Newton believes that the god drives the motion of celestial bodies, coming up with the law of gravity randomly, regardless the

difference between earth object and celestial body, unifying celestial mechanics and on-the-ground object mechanics, realizing the first integration in physics history, which is undoubtedly wrong. Until now, misguiding astrophysics circle, making them fall into the swamp that can't be pulled out; making the motion of celestial body into the maze, and the misguidance to human being made by Newton can't be ignored.

In 1664, Hooke discovered that the curve that the comet is close to sun orbit is the result of attraction from the sun (which may not be correct, because the track of comet should have been round); in 1673, Huygens deduced the law of centripetal force; in 1679, Hooke and Halley deduced that the gravity maintaining the motion of the planet and the square of its distance have inverse ratio (being denied by Guo Xuannian this year). Newton discovered that the earth (celestial body) has gravity, publishing the law of gravity. Obviously, Newton was inspired by his predecessors, and the law of gravity originated from the results made by his predecessors. In 1686, under the urge and support of Halley, Newton wrote *The Mathematical Principles of Natural Philosophy*. While Mr.Hooke saw this the draft of this book, who believed that he had made his contribution too, proposed to young Newton, it's better to talk about his working performance in the book, but Newton refused his proposal, which wasn't published until the death of Hooke. Newton suppressed and stopped astronomer Flamsteed's observation data to the star, but misappropriating and pirating his results. In 1684, Leibnitz published his calculus paper. After 3 years, Newton recognized the contribution made by Leibnitz in initial version of *Principle* published in 1687. Later, Newton and Leibnitz competed for invention rights, causing political friction between UK and Germany, then, the two shared the result.

No one is omnipotent, and it is hard for him/her to complete the work at that time and realized his/her own ideal. The law of gravity published by Newton disgraces working results of predecessors, today's law of gravity will be denied either, misguiding many astrophysicists, Newton should take all the responsibilities. Newton is a mathematician; at least he should know that its extreme value is zero if one positive number tends to be infinitely small. Newton is a physicist, who also knows that the magnet can attract steel ball, the more the distance between the two, the less mutual attraction, while the distance between the two reaches one certain value, the magnet can't attract steel ball, and mutual attraction tends to be zero. Newton discovers that earth (celestial body) object has attraction, but not knowing that the attraction can generate attraction resistance, moreover, the attraction of object(celestial body) is decaying, whose extreme value is zero, i.e. the distance that

acceleration of gravity tends to be zero is effective distance of attraction force. Why doesn't Newton ignore these problems?

At the times of Newton, human being can't realize aeronautics and astronautics, who can't measure effective attraction distance of celestial bodies, without the condition to publish of the law of gravity. In order to establish the formula of mutual attraction between two celestial bodies, the masses of  $m_1$  and  $m_2$  must be known, and effective distances of  $m_1$  and  $m_2$  are  $r_1$  and  $r_2$ , only when the distance between two celestial bodies  $r < r_1 + r_2$ , they have mutual attraction; while  $r > r_1 + r_2$ , there is no attraction between them. Newton was anxious to publish the law of gravity, in order to firstly demonstrate that heliocentric theory is correct; this is not the attitude that a scientist shouldn't have.

Newton didn't derive gravity constant  $G$ , even if the law of gravity is correct, there is no practical value, this also demonstrates that Newton's greedy for contribution. Being misguided by Newton, Cavendish derived gravity constant  $G = 6.67 \times 10^{-11} \text{N} \cdot \text{m}^2 / \text{kg}^2$ , without any scientific basis. Because changing the mass, material and interval of torsion balance device  $m$  and  $m'$  has different constants. Secondly, torsion balance device is impacted by magnetic field of the earth, the mass of the earth and object can be calculated by inserting constant  $G$  into calculation formula of the law of gravity, and there is 20-30% deviation error, and it is ridiculous to calculate the mass of remote celestial body, and Wang Yaping can't measure the mass of astronaut Nie Haisheng accurately, which is the demonstration that gravity constant  $G$  is bigger.

The following is to demonstrate that there is essentially difference between on-the-ground object mechanics and celestial mechanics with the facts as basis, the two can't be unified and integrated. Newton confused the conceptions of the two, in order to cover the problems existing in the law of gravity, making the successors not dare to challenge.

Earth (celestial body) has attraction, besides the mass, the object on the surface or under the range of gravity, there are also weight (gravity) actions. Besides the velocity of moving object is related to the mass, the motion of the object is also disturbed by the resistance including attraction, friction and air resistance etc under the action of gravity. The motion of celestial body refers to the motion of celestial body or the object launched into outer space without any resistance. Celestial body has its attraction, however, under enormous outer space, the distance between celestial bodies exceeds effective distances of the two combined, and celestial body or object are not disturbed by other attraction (foreign force) under

motion in outer space, only with mass without gravity, without attraction, friction and air resistance etc, and this is essential difference between the motion of celestial body and on-the-ground object motion, and the two can't be unified and integrated.

Celestial bodies are mutually attracted in infinitely remote manner, even if not considering the gravity (there is the law of gravity and gravity, which will be discussed in argument 19), based on  $F=ma$ , two celestial bodies are mutually attracted, and the status or motion form of celestial body will be changed, it is not impossible that its status is not changed while celestial body with mass is affected by foreign force. All celestial bodies are mutually attracted in infinitely remote manner, and celestial bodies will present Brownian motion, without any laws. For example, all celestial bodies in solar system are doing regular motion, that demonstrates the sun and planet, the planet and the planet, the planet and the moon are mutually attracted, then presenting periodic motion. The most persuasive thing is, celestial body with mass without gravity can be perpetual motion machine, launching artificial satellite into outer space, getting rid of the disturbance made by magnetic field of the earth and other celestial bodies, and it only has mass without weight, which doesn't need bearing face, becoming perpetual motion machine. The object on the ground or under the range of gravity not only has mass, but also weight, which will move if being affected by action force (reaching certain value), and it will stand still while stopping the action of the force. This is not only fundamental reason why perpetual motion machine can't be made under the range of earth gravity, but also essential difference between motion of celestial body and the motion of the object on the earth, therefore, celestial mechanics and on-the-ground object mechanics can't be unified and integrated.

People call Newton's three mechanics laws as the classics of mechanics; unfortunately, Newton didn't distinguish its applicable scope, confusing different conceptions between earth object mechanics and celestial mechanics. During argument 5, analyzing that Newton's three mechanics laws can't be applicable into on-the-ground object motion, i.e. which is not allowed to be applicable to the motion of the object with both mass and gravity, only applicable to the motion of celestial body with mass. It must make modification in order to be applicable to the motion of earth object, and these problems are through detailed demonstration, whose arguments can be ignored. However, it fully demonstrates the difference between celestial mechanics and on-the-ground object mechanics.

Since taking Lucasian professor of Cambridge University in 1669, Newton had been obsessed to

alchemy and theology. In the manuscripts left by Newton, there are about nearly 650 thousand characters about alchemy, however, 1.5 million characters about theology. Obviously, Newton is a scientist, and follower of theology, therefore, he believed that the god drove the motion of celestial bodies, and he came up with careless three mechanics laws and the law of gravity, no wonder confusing the difference between the motion of celestial body and the motion of the object on the ground. Unfortunately, it's been 286 years since the death of Newton, the astrophysicists still can't correct the falsehood of the hunch and assumption under the guidance of Newton's superstitious thought, clarifying ambiguous conception between three mechanics laws and the gravity, recognizing that celestial mechanics and on-the-ground object mechanics can't be unified and integrated, that's true tragedy for earthmen.

The facts prove that the superstition originates from the ignorance to the things, and the individual follows the money and power due to limited capability and knowledge, generating superstition and adoration to the technology. The people standing lower than Newton can't identify the mistakes in Newton's three mechanics laws and the law of gravity, also cracking down and suppressing different opinions, maintaining the authority of Newton, in order to show the knowledge that he/she learns is legitimate and correct. I will make some examples as follows:

There are problems in Newton's three mechanics laws and the law of gravity, especially that earth object has its mass and gravity, which needs bearing face; however, celestial body has weight, without gravity, which doesn't need bearing body; the two are totally different, which can't be confused together. The experiment making action force and counterforce equal with Newton's the third law by the physicist is to balance the weight of the object with the buoyancy of the water, disgracing the difference between celestial body and earth object, which is just fraud. During mutual action of the object, the impact is the most representative, however, the impact to the object on the earth is not completely on the water, most of which are on the ground. Taking two objects with the same mass, one is still on the surface of the water, another object is impacting it, which can reflect inequality of action force and counterforce, the more the action force of the object in motion, the less the counterforce of still object, then we will find the truth. It is estimated that many physics teachers know that experimental devices are not reasonable, who never challenge it due to not daring to violate textbook and the recognition in the world, just repeating the fraud.

Secondly, after receiving *Heterodoxy on Geophysics and Motion of Celestial Body* and relevant papers, some physicists will just say: "heliocentric,

Kepler's law and Newton's law win the recognition in the world, and astronautics is still based on the law of Newton, what's wrong?" They should think about this, with the progress of human society and technology, people's cognition and opinion are changing, which have higher and higher request about technology. *Almagest* written by Ptolemy had been recognized by the earthmen for over 1400 years, however, geocentric theory was still replaced by heliocentric theory, and can we make sure that the theory recognized by the world is truth? Any theories are based on the practice and needs, over 3000 years ago, our country doesn't have systematic elementary math and structure mechanics, but people can still build the palace with great roof and temples; without studying mechanics, but the acrobats' highly difficult acrobatics comply with the principle of mechanics; hundreds of years ago, China didn't have optics, but the magician can do magic with the optics. This demonstrates that the delicate theories originate from long-term practice, though many failures, then winning the success, and we can make one-time victory with the guidance of the theory.

True science and technology don't need thousands of practice attempts, and we can get accurate result with correct elements acquired by regular practice, instead of having enormous error. There is mistake in the law of Newton, that doesn't mean which can't be applied into the astronautics and the errors and mistakes can be corrected through repeated experiments, but that will waste time, manpower and material. Tiangong No.1 and Shenzhou No.8 docked in outer space, and the success comes from over 1000 experiment; Change No.1's design longevity is 1 year, but actual longevity is 494 days, with the error 35%; The mass of astronaut Nie Haisheng measured by Wang Yaping also has the error of 16%, is that science without accuracy? In fact, Chinese astronautics is that the scientists expand insurance coefficients and make up the mistakes in the law of Newton.

Newton didn't unify and confuse celestial mechanics and the mechanics of the object on the ground, people would study the difference of the two, discovering the problems in the law of Newton. Newton recognized that celestial bodies (objects) can't be attracted in infinitely remote manner, he wouldn't come up with the law of gravity, and he may study effective distance of the gravity of celestial body, finding the distance that acceleration of gravity is zero, and changing relationship that attraction is becoming weak from strong. For example, artificial moon satellite not only has friction with moon surface, but also without air resistance, it can't orbit the moon for long time, which can't be explained with the law of Newton. Only recognizing that artificial moon satellite

is orbiting around the moon, affected by the attraction force of the moon, making artificial satellite have gravity, i.e. artificial satellite is cutting attraction line of the moon, affected by attraction resistance of the moon, and artificial moon satellite can't get energy supply, which will fall onto the surface of the moon.

People have cognition to attraction resistance, exploring the relationship between effective distance of attraction of celestial body, gravity intensity, attraction resistance and distance. Establishing gravity constant  $G$  as variable, modifying the law of gravity, then we can accurately calculate the stroke and time of artificial satellite's operation circling around the earth and the moon, and then control the distance between artificial satellite and the celestial body orbited. However, the astrophysicists don't recognize attraction resistance, who still believe the unification and integration between celestial mechanics and mechanics of the object on the ground. Unfortunately, enormous errors on astronautics must be corrected by the experiment, and it is still believed that the law of Newton is correct, and it is obvious that the magic of scientific superstition is infinite.

August 14<sup>th</sup>, 2013

**Demonstrating heliocentric theory and the law of gravity are wrong with calculation result of the law of gravity (paper 16)**

Guo Xuannian Water Conservancy Bureau, Zhuzhou, Hunan, China

**Abstract** although the foundation of modern science is based on the methodology of math logic deductive method, undeniably, primitive science is to hunch and assume based on superficial phenomenon, even replacing the science with the superstition. There were not theoretical basis and model experiment for heliocentric theory published by Copernicus and today's astrophysics hasn't completed heliocentric theory, without establishing logic deductive method due to superstition. The law of gravity not only establishes math formula, Cavendish also measured gravity constant  $G$  with torsion balance device, therefore, people believes this law is correct. The demonstration to the law of physics, there is another kind of contradictory method, whose law can't come into existence.

**Key words :** to calculate mutual attraction of two celestial bodies with mathematical formula of the law of gravity, we will know that the law of gravity is fictional, whose calculation result is self-contradiction, which can't

justify itself. The astrophysicists, who recognize heliocentric theory and the law of gravity, should solve their questions, correct wrong conception.

Guo Xuannian comes up with new theory that celestial body is rotating due to the action of internal force, displacing into circle track with uniform self-rotation. Celestial body is doing circle motion on its own, and there is no revolution. He doesn't believe in heliocentric theory, the law of gravity and gravity constant  $G$ , even if Newton's three classic mechanics laws, which are only applicable to the motion of celestial body with the mass, which should be corrected if being applied into the object moving on the ground, because there is essential difference between celestial mechanics and the mechanics of the object on the ground. According to the comparability of celestial body and object motion, the faster object is circling the slower one on the earth, however, celestial body motion is just opposite, and this is contradictory with Newton's integration of celestial mechanics and mechanics of the object on the ground.

For example, revolution velocity of the moon is 1.023km/s, which can revolve around the earth whose revolution velocity, is 29.8km /s, and the earth, can revolve around the sun whose revolution velocity is 250km/s, and this is the contradiction caused by wrong heliocentric theory and the law of gravity. Because this kind of contradiction can't be explained, before Newton, Galileo believes that all the objects have the trend of integration, which causes circle motion made by the object; Kepler believes that, the motion of the planet circling around the sun must be affected by the force similar to magnetic force coming from the sun; French physicist Descartes believes that the motion of the planet is because that there is rotating matter(ether) acting on the planet around the planet, making the planet circling around the sun. Some scientists at the times of Newton, e.g. Hooke and Halley etc had further understanding to this problem. They believe that the reason why the planet circles around the sun is because it is being affected by the sun, however, they can't demonstrate that under elliptic orbit, the gravity still follows the same law. Based on their theories, Newton came up with the law of gravity, which can't demonstrate elliptic orbit, and the basis of elliptic orbit is that the planet has perihelion and aphelion; therefore, he can't do simulation experiment of celestial motion in solar system. Sceptically, anyone can't demonstrate why slower celestial body circling around faster one. It is obvious that heliocentric theory and the law of gravity are still superstitious, which still keep its mistake to cover the problem due to not understanding the truth of the motion of celestial body.

Heliocentric theory and the law of gravity have



above problems, and we can also unveil potential self-contradiction of two celestial bodies. It is estimated that Newton won't ignore these problems if he is alive, unfortunately, the people who recognize the theories of Newton don't care about this, and it is pity.

Assuming calculation formula of the law of gravity and gravity constant  $G$  are correct, and we can find the problems through calculation

1. Calculating mutual attraction  $F$  between the sun and the earth, deriving pulling force imposed on every square centimeters projection surface of the earth by the sun

Known: the mass of the sun  $m_1=1.989 \times 10^{30}$ kg, mass of the earth  $m_2=5.98 \times 10^{24}$ kg, and the distance  $r_1=1.496 \times 10^{11}$ m (average distance),

$$G=6.67 \times 10^{-11} \text{N} \cdot \text{m}^2/\text{kg}^2$$

$$\therefore F=Gm_1m_2/r_1^2=6.67 \times 10^{-11} \times 1.989 \times 10^{30} \times 5.98 \times 10^{24} / (1.496 \times 10^{11})^2 \approx 3.545 \times 10^{22} \text{ (N)}$$

The physicists believe that if the pull like this is imposing on steel pillar whose diameter is 9000Km, it will be broken! Just because the sun has the pull like this to the earth, the earth can revolve around the sun. People can calculate the pull to every square centimeter on projection surface of the earth made by the sun.

Known:  $F=3.545 \times 10^{22}$ N, radius of the earth  $R \approx 6378 \text{km} = 6.378 \times 10^8 \text{cm}$

$$\text{Project area of the earth } A = (6.378 \times 10^8)^2 \pi = 1.278 \times 10^{18} (\text{cm}^2)$$

$\therefore$  Stress

$$\delta = F/A = 3.545 \times 10^{22} \text{N} / 1.278 \times 10^{18} = 27739 (\text{N}/\text{cm}^2) = 2830 (\text{kg}/\text{cm}^2)$$

Because earth object has its weight, which is generated from the attraction of the object on the surface of the earth, now, no one can demonstrate the earth's attraction-2830kg/square cm to the object on the surface of the earth, this is one of the problems; problem 2, the sun's pull to earth object is much bigger than the earth's attraction to the object, it will lose its balance, and the sun will pull the object on the surface and the airplane in the sky, even pull out of big trees, moreover, surface water will be absorbed by the pull of the sun. Assuming that earth object is balanced due to being affected by the pull of the sun and the gravity of the earth, the object will lose its weight, and people can fly in the sky and it is impossible.

2. Calculating the sun and the earth's attraction to the moon, challenging why not the moon circling around the sun

The masses of the sun and the earth are known, and the mass of the moon  $m_3=7.35 \times 10^{22}$ kg, assuming that it is the fact that the moon is circling around the earth, then, average distance between the sun and the

moon  $r_2=1.496 \times 10^{11}$ m, and average distance between the earth and the moon  $r_3=3.844 \times 10^8$ m

$\therefore$  Mutual attraction between the sun and the moon  $F_1$

$$F_1=Gm_1m_3/r_1^2=6.67 \times 10^{-11} \times 1.989 \times 10^{30} \times 7.35 \times 10^{22} / (1.496 \times 10^{11})^2 = 4.357 \times 10^{20} \text{ (N)}$$

Mutual attraction between the earth and the moon  $F_2$

$$F_2=Gm_2m_3/r_3^2=6.67 \times 10^{-11} \times 5.98 \times 10^{24} \times 7.35 \times 10^{22} / (3.844 \times 10^8)^2 = 1.984 \times 10^{20} \text{ (N)}$$

$$\text{From } F_1/F_2 = 4.357 \times 10^{20} / 1.984 \times 10^{20} = 2.2 \text{ (times)}$$

Calculation result demonstrates, the sun's pull to the moon is over 1 time greater than the pull to the moon made by the earth, why not the moon circles around the earth, instead of the sun with bigger pull, why? Newton has passed away, who can't explain this problem, why not the people supporting heliocentric theory and the law of gravity give reasonable explanation?

Celestial motion and the motion of the object on the ground have the difference of gravity, which can't be unified and integrated, but they have resemblance. For example, team A and team B are doing push-and-pull, the pull of team A is 1 time bigger than team B, definitely team A will pull over team B, while two persons are struggling for the same thing, the one with bigger strength can win. Assuming that the moon is truly circling around the earth (which actually doesn't exist), while the moon is running between the earth and the sun, because the sun's pull to the moon is 2.2 times of the earth's pull to the moon, definitely the sun will pull over the moon of the earth(moon) to circle itself. The mass of Pluto is smaller than the moon, whose distance from the sun is 40 times of the distance between the moon and the sun, however, the Pluto is circling around the sun without circling around Neptune which is closer to it, why not the moon circling around the sun? This is the contradiction caused by heliocentric theory and the law of gravity.

Guo Xuannian told the professor in astronomy department of the university, according to the formula of the law of gravity, deriving there is 2830kg pull to every square meters on projection surface of the earth made by the sun, if so, many problems can't be explained. This professor said that he didn't calculate that, who didn't know the problems. Guo Xuannian also told physics teacher in middle school, the sun's pull to the moon is 2.2 times of the pull to the moon made by the earth, they answered that they didn't calculate that. It is obvious that Chinese education and teaching is not only infusion education, but also the teacher repeats what the book says, without challenging and verifying the knowledge taught by the teacher. This is a kind of superstition and adoration;

more possibly, it is lack of complete education system.

Tracing to the source, geocentric theory and heliocentric theory are both hunch and assumption to natural phenomenon, which is almost the same thing. *On the revolutions of the celestial spheres in the solar system* prepared by Copernicus is too complicated, which is not realistic, and there is no theoretical basis and experimental demonstration for replacing geocentric theory with heliocentric theory. Based on the hunch of some predecessors---why are the planets revolving around the sun, Newton made up the law of gravity. Newton didn't know why celestial bodies were rotating and revolving, depending on the driving force of the god, so he can't demonstrate why the planets are revolving around elliptic orbit (there are no theoretical and math formula demonstration), nor designing simulation experiment of celestial body in solar system, and the basis of the planet's elliptic orbit is still aphelion and perihelion, and the opinion is absolutely outdated and lagging behind. The earthmen have realized astronautics and aeronautics, however, the astrophysicists haven't actively broke the mystery why celestial bodies are rotating and revolving, nor the planet's elliptic orbit and the law of gravity, only emphasizing that heliocentric theory and Newton's laws are recognized worldwide, and it is correct that the satellite has been in the air. This is unreasonable academic arbitrariness and knowledge monopoly, suppressing the exploration and competition of science and technology!

The facts show that even if wrong theories have the protection from forbidden zone, it will expose in the practice which can't justify itself, even causing catastrophic consequence for human being. Heliocentric theory and the law of gravity expose some problems that can't be explained, and the astrophysicists just cover its contradiction with ridiculous theories instead of challenging its correctness. Now, artificial satellite is in the air, which has large insurance coefficients, but lack of accuracy and precision, whose error needs to be tested repeatedly, in fact, it is to correct theoretical errors with the practice. This is because human being hasn't realized that celestial body is doing circle motion on its own, and attraction of celestial body has effective distance, which can also generate attraction resistance, and acceleration of gravity is variable etc.

It is incorrect that our country treats cynic as crime. The people promoting the progress of the society and science and technology have cynical character in common, if being satisfied with current status, without exploitation and innovation, how can the society make progress? Therefore, it should be fair to treat the cynic. The whole world recognizes that heliocentric theory and the law of gravity are reality, and Guo Xuannian is not satisfied with this reality, so

as to deny heliocentric theory, Kepler's law and the law of gravity, come up with new theory that sphere celestial body is rotating due to its own force, with uniform self-rotation displacement circle track, and celestial bodies are doing circle motion on their own, without revolution.

Guo Xuannian also recognizes that, foolish people are not only illiterate grassroots adoring the god; if one individual holds conservative, superstitious and adoring spirit, without exploitation and innovation, just following the old rules, and there are still some foolish government officials, experts and professors who are more stubborn and destructive. This paper is to demonstrate self-contradiction between heliocentric theory and the law of gravity with calculation data, looking forward to draw attention, conducting theoretical exploration and academic competition!

August 19<sup>th</sup>, 2013

**Establishing brand-new method to observe the motion of celestial bodies and how to protect the earth( paper 17)**

Guo Xuannian Water Conservancy Bureau, Zhuzhou, Hunan, China

**Abstract :** from observing astronomical phenomenon and the motion of the star, developing into probe airship entering into outer space for detailed exploration, the earthmen haven't walked out of plane project method. It can be said that, there is only ambiguity and clearness in observing astronomical phenomenon with advanced equipment and less developed methodology, without the difference of star location, and it is impossible to learn about the truth of motion of celestial body. Only observing the motion of the star by establishing outer space 3D space system, mapping motion track of celestial body onto 3D coordinate figure correctly, the earthmen can unveil the truth of motion of celestial body.

**Key words :** establishing outer space fixed point star-observation station, using radio sender and receiver, tracking and positioning celestial bodies to be observed. Mapping revolution track of celestial body onto space 3D figure according to the azimuth, through calculating the distance between celestial body and observation station in different times with radio spread time, not only mastering space track of the motion of celestial body, but also judging if heliocentric theory is correct or not.

Since there were human beings on the earth,

someone began to observe astronomical phenomenon, and it can be said that star observation by ancient people didn't work well. Human being had simple understanding to astronomical phenomenon, and many people identified the position with astronomical phenomenon, predicting dynastic changes and the fall of VIPs, full of superstition. During the early times of 14<sup>th</sup> century, Chinese didn't know that the earth is one planet with elliptic sphere. At that time, China had state-of-the-art navigation technology, Zheng He sailed to Western Ocean for 7 times, however, who didn't know how to get back, so as to not discover new continent. With the development and progress of human being, developing towards scientific observation to the motion of celestial body from observation of astronomical phenomenon, during geocentric era, the ruler believes that the earth is the center of the universe, which is standing still, and the sun, the moon and the planet are revolving around it, undoubtedly, this is that the people are observing and mapping astronomical phenomenon by standing in fixed point. Copernicus's heliocentric theory replaced geocentric theory, which believes that the sun is invariable, which is being revolved by the earth and the planet, and the diameter of earth track is 300 million km. This also indicates that the people are observing the stars in dynamic point, and astronomical phenomenon should be corrected according to the change of the position of the motion of the earth. This also demonstrated that heliocentric theory replaced geocentric theory, and the two's astronomical phenomenon are consistent without changes, and the astrophysicists didn't propose correcting astronomical phenomenon figure, and it is obvious that there is error in astronomical phenomenon figure. This is mainly the change of the theory, without changing the methodology of observing astronomical phenomenon.

Ancient people observed the stars with naked eyes, only seeing all the celestial bodies overlapping in one plane (the earth was not revolving around the sun, and half number of planets in solar system were not found, only seeing half of the sky). Just like photography, overlapped ridges and tops are found only by close photography and remote photography, just with different proportion. Because celestial body very remote from the earth (excluding the sun and the moon), the changes of motion of celestial body and space position can't be seen with naked eyes. After Copernicus came up with heliocentric theory, Galileo observed the stars with the telescope, only enlarging individual celestial bodies, which is still projection screen. Today, astronomical phenomenon is being observed with probe airship, individual celestial body can be observed in detail, and it is hard to learn about track of celestial body and space structure. Although developing into space telescope and probe airship

from observation with naked eyes in terms of observing astronomical phenomenon, with advanced equipments, but observation methodology still lags behind (which is almost the same), still regarding outer space as big screen dotted with stars, without substantial development, so as not to know that heliocentric theory and the law of gravity are wrong.

Hydrological stations are set on the ground according to the distribution of the rivers, and the personnel can measure the water level of the river and the change of flux by period of time everyday, and some of them also measure rainfall and evaporation volume concurrently. Because doing repeated work everyday, people call it hydrological monk (repeated pattering everyday). Observation equipments in the observatory are improved, whose methodology observing astronomical phenomenon and celestial body remains unchanged. Repeating unalterable work for hundreds of years, don't the observers from the observatory become astronomical monk? Heliocentric theory replaces geocentric theory and fixed point for self-rotation of the earth becomes dynamic point of composite motion combining self-rotation and revolution together, the methodology observing astronomical phenomenon should be changed, i.e. the center of solar system has been changed, if its observation method remains the same, people haven't completely accept heliocentric theory.

If not misguided by heliocentric theory and the law of gravity, curve motion of the object is studied comprehensively, the physicists will find out that non-uniform self-rotation object can displace curve track, and uniform self-rotation object (top) can displace circle track. Self-shrinking into sphere celestial body can realize perpetually uniform self-rotation, and they are doing circle motion round and round. Centripetal force can be generated from self rotation, which doesn't need the sun as the center of the planet, nor gravity as centripetal force, and heliocentric theory and the law of gravity don't work to the motion of celestial body, and the truth of celestial body that is self-rotating in circle motion will be unveiled.

The personnel in the observatory can't become conformism, since heliocentric theory replaces geocentric theory, the methodology observing celestial body should be changed. Firstly, it should start from earth-like planet, the sun and the moon in solar system, it is estimated that new theory on the motion of celestial body has been come up with earlier, not taking the observatory as the tool of heliocentric theory. If we want to test if heliocentric theory is right or wrong, the contradictory problem can't be found until the change of opinion. During the times without aeronautics and astronautics, at least people know that celestial bodies were doing circle motion, only doing

circle (elliptic) motion, there is regular cycle motion. Although all the planets and moons in solar system can't be seen at every night, we can see the sun in daytime, and the moon at night (excluding some nights), the personnel in the observatory record the distance between the earth and the sun at 12:00 every noon, and the distance between the earth and the sun at 6:00 pm, 12:00 pm and 6:00 am every day, the azimuth is mapped in the plane paper. According to 365 points of the earth and 27.3 track points of the moon, which can form the circle, until observing the closure of track points of the sun, circle track figure of the sun, the earth and the moon can be made, then we can not only know the relationship between three track circles, but also overturning heliocentric theory. Unfortunately, the observatory hasn't done this work yet, so that the people haven't known the truth of the motion of celestial body.

Guo Xuannian proposes new theory on the motion of celestial body that celestial body is doing circle motion on its own, without any revolution, and proposes that circle diameter of moon track is  $4.22 \times 10^4 \text{ km}$ , and track diameter of earth displacement circle is about  $7.85 \times 10^5 \text{ km}$  according to the relationship between the sun, the earth and the moon, because self-rotation period of the sun and its equator's linear velocity are not certain, it is estimated that circle diameter of the sun displacement is about  $(2.44 \sim 3.15) \times 10^6 \text{ km}$ . Today's observatory is fully capable of observing the relationship between the distance and azimuth of the sun, the earth and the moon, testing if new theory of the motion of celestial body is right or not, unveiling the mystery of the motion of celestial body.

Observing the motion of celestial body should start from the sun, the earth and the moon, firstly, the sun and the moon are the closest celestial bodies towards the earth; secondly, the sun is an enormous light sphere with the diameter 4.5 billion km, except Pluto, other planets and moons are crossing between this enormous light sphere (the earth is not revolving around the sun, and there are more than half planets and moons are not being found in solar system), and the earthmen can't see the motion of other planets for several times in 1 year, not revolving around the sun, and there are more changes for observation. It is predicted that the planets are revolving around the sun, the moons are revolving around the planets, which is the hunch that the physicists are superstitious with heliocentric theory and the law of gravity, and it is untrue.

In order to demonstrate that celestial body is doing circle motion on its own, it is enough to demonstrate one planet or moon, and it is complicated to derive displacement circle tracks of the sun, the earth and the moon, and advanced modern

methodology can be adopted. Currently, new theory demonstrating the motion of celestial body doesn't need to measure the track of every planet and satellite in solar system, and the representative ones are enough. Firstly, we can rule out Jupiter-like planet which is remote to the sun, and Mercury and Venus which are earth-like planets have high temperature, so it is hard for human being to land, which should be ruled out too, the representative earth, Mars and moon can be measured. The attraction of known celestial body has its effective distance, and the sun, the planet and the moon don't have mutual attraction, and it is estimated that displacement circle of the moon is small, and effective distance of the gravity is short (it may be less than 10 thousand km). One fixed point space observatory can be established in the center of moon displacement circle track (center of the circle of the track), with radio wave reception and positioning equipment. It is not convenient for observation due to the insulation of sunshine, and there is the equipment set for launching radio wave in the earth and mars, launching radio wave by time-sharing. Space observatory receives the radio wave and calculates the distance between the two, and map space track figure according to the positioning and then unveil the truth of the motion of celestial body.

The most economic and intuitionistic method is to conduct space experiment. Our country has possessed the conditions to conduct space experiment, manually manufacturing one uniform self-rotating sphere initiated by mechanical energy or accumulator, throwing it into outer space or space lab to let it be self-rotating uniformly, then we can see it displaces round track, and we can unveil the mystery of the motion of celestial body, realizing the purpose of denying heliocentric theory and the law of gravity. This kind of experiment is very significant, which is more important than any other experiments.

Human being has understood the motion of celestial body, and there is no mutual attraction if the distance between two celestial bodies exceeds their effective attraction distance, they are doing their own circle motion, and celestial bodies in the universe can be moved and changed to benefit human being. Currently, the most important thing is to understand mutual attraction between the sun and the earth, then human being will know how to protect the earth. Protecting the earth is not only to protect the forest, plantation and species, prevent the atmosphere and water source from being polluted, but also protect the landscape and terrain of the crust. People are not allowed to move the mountains and fill the seas, build innumerable skyscrapers, nor build over-size reservoir, and the change and stress of crust load should concentrate, otherwise, it will trigger geological disasters like earthquake etc. If inherent balance of the

earth is impacted due to major change of its landscape and terrain, triggering earth axis to adjust its tilted angle to maintain its balance, then devastating disasters will happen.

Human beings are not allowed to launch rockets and artificial satellites on the earth in unsymmetrical manner, although recoil and acceleration will disappear, uniform motion will remain, if the earth has displacement 2cm/second, then it is 631km/year. People only understand that the industrialization can cause global warming, in fact, comparing to the light and heat that earth receives from the sun, the temperature rising brought by the industrialization is minor, if the distance between the earth and the sun is shortened by 10000 km, the temperature will drop or increase by 0.0592°C, since global climate is warming, proving that the earth is closing towards the sun, if it is shortened by 1 million km, average temperature of the earth will increase by 6°C, and many people living in tropical zone will be dead due to the heat. Secondly, the temperature rising will increase water vaporization, and water vapor will drop after reaching the sky, undoubtedly, which increase the flood and geological disasters.

Unfortunately, being blinded by heliocentric theory and the law of gravity, human being hasn't known the truth of celestial body. The astrophysicists are still extravagantly promoting that mutual attraction between the sun and the earth is  $3.56 \times 10^{22} \text{N}$ , due to being bound by the sun, the earth's track is invariable, which actually misguides human being. So that developed countries and developing countries are acting wildly against the law of nature, launching the rockets and artificial satellites from the earth in unsymmetrical manner, causing human being towards the death. Protecting the earth is big event for the earthmen, and it is necessary to make people understand that heliocentric theory and the law of gravity are empty, and there is no mutual attraction between the sun and the earth, stopping irresponsible behaviors on the earth. If human being can't correct themselves by being obsessed with the mistake, it is not long to walk towards the end of the world.

August 24<sup>th</sup>, 2013

### Testing the result of studying astrophysics with the same standard (paper 18)

Guo Xuannian Water Conservancy Bureau, Zhuzhou, Hunan, China

Abstract: *the Heterodoxy on Geophysics and The Motion of Celestial Body* is fundamental knowledge to challenge the astrophysics, correcting the mistakes and changing people's opinions, which can benefit the

development of science and technology. For the problems in question, which are excluded by some experts and scholars, some are maintaining heliocentric theory, Kepler's law and the law of gravity with the terminology of modern science and technology; essentially, they are excluding new opinions with different standards. In fact, the people maintaining the theories came up with by Copernicus, Kepler and Newton, should solve the confusion for the issues in question, which is right behavior and make people convinced.

Key words : Guo Xuannian received the letter from anonymous kind person, believing whose opinions represent the perspectives of most of experts and scholars. Therefore, I publish my perspectives aiming at his opinions, hopefully, to solve the confusion for the issues proposed by the amateurs, instead of suppressing and denying them completely. We'd better discuss and debate (at Guo's costs), and study results of one individual for 46 years can't be in vain, which can't be identified until debate and discussion.

Guo Xuannian comes up with new theory on the motion of celestial body, denying heliocentric theory, Kepler's law and the law of gravity as well as Cavendish's experimental device and his gravity constant G. He believes that the experiment involved of earth object motion can be made with model experiment in the lab on the earth; the experiment involved of the motion of celestial body must be done in space lab; the result, which can't be derived in space lab, should be redone in space lab today, it is not allowed to confuse the difference between the motion of the object on the earth and the motion of celestial body, then we will know that it is wrong for Newton to unify and integrate the mechanics of celestial body and the mechanics of the object on the earth.

The questioning from new theory on the motion of celestial body is fundamental knowledge of astrophysics. Because it is impossible for the amateurs to establish space lab, it is fair and reasonable for them to question its self-contradiction. Guo Xuannian prepared *Heterodoxy on Geophysics and The Motion of Celestial Body*, 19 papers and 6 model experiments (video as proof), with his best efforts. He sent relevant material report to Chinese Academy of Sciences and its affiliated research units, observatory and relevant newspapers, as well as astronomy department in the universities and well-known experts and professors, however, without any response.

Without any other choices, he posted relevant materials onto the websites of universities, in order to

trigger the debate, and identify if there is research value or not. On August, 2013, one anonymous individual sent e-mail to me from Peking University, discussing his 3 opinions. Guo Xuannian was very pleased to have the e-mail, because someone had seen his relevant materials, which was better than being sealed, not to mention the unit which ignore my work. Guo Xuannian appreciates this anonymous individual very much, and he represents the opinions of most of people, and I will make some explanation to others' counter-questioning, walking out of wrong recognition. Therefore, according to 3 opinions of this individual, I published some different perspectives, in order to benefit our common debate.

**1. It is rare for the professors to visit the version of bbs physics department, whose function is solve teaching affairs generally, instead of discussing academic issues.**

Universities and colleges are the places to cultivate the talents, as well as research institutes, and many research results originate from the universities and colleges, e.g. UK's Cambridge and Oxford Universities, therefore, the university is not just the unit just responsible for teaching. For example, there are more teaching hours for elementary teachers, about 8-10 course hours for middle school teachers, even less for university professors, and the government offers them time for research. If the experts and the professors don't receive the challenge to matching professional knowledge of researchers proposed by the amateurs, without working out the confusion, firstly, academic atmosphere will be deteriorating, which never happened before and during culture revolution, they believed that confusion solution was his/her duties, feeling glorious and proud; today's academic atmosphere is so degrading, which is truly sad; secondly, there are problems in the institution, and the evaluation of job title just depends on the diploma, unit level and theorists' papers, instead of exploiting and innovating new results, and there are many amateurs in the experts and scholars; there are so many universities and colleges in China, which is listed No.1 in the world, but there are very few research results.

Most of China's so-called research projects are following advanced countries, just making repeated study to the results achieved by them decades ago, which is not innovative research and study, but imitation and misappropriating. Some experts are suppressing new opinions proposed by domestic personnel, who are not interested in new questions, excluding them, not dare to receive the challenge, only working depending on their diploma, which should be disputed. Guo Xuannian believes that reading is the blossom; working is the result that the government and the public want. If one individual learns more

knowledge, getting the diploma of doctor, without his/her own results, engaging into intermediate teaching for his/her whole life, who is just regarded as a scholar, actor or entertainer, instead of expert, professor and scientist. If the institution is reformed, the expert, professor and scientist can't be recognized without research results, then many intellectuals will exploit and innovate for research results, shame of depending on their diplomas. Many students won't take the diplomas as their opener for their job-seeking; instead, they will do their work supposed to do well. Today, many individuals' jobs are not matching their majors that they study, forming super waste to educational resources, that's solid proof.

**2. With my understanding to the physics, your statement is subjective assumption, and your methodology used is just induction, lack of mathematical logic deduction. However, the basis of modern science is just established based on logic deduction methodology, therefore, your study methodology is not applicable to study modern science theories, and you will realize your achievement in terms of studying liberal arts.**

Firstly, let me tell you, as an anonymous good comrade, Guo Xuannian is to challenge heliocentric theory, Kepler's law and the law of gravity etc as fundamental theories of astrophysicists instead of studying modern sciences, and the same thing is not allowed to be measured with double standards. Copernicus was not aware why celestial bodies had self-rotation, revolution, as well as why celestial bodies had attraction, can he conduct mathematical logic deduction? Kepler didn't prove that the sun would be in one focus of all elliptic orbits of the planets, and there was celestial body in another focus; not to mention why planet orbit was elliptic? Newton didn't prove that why the attraction of celestial body was infinite, why were celestial mechanics and the mechanics of the object on the ground unified and integrated.

The facts demonstrate that heliocentric theory, Kepler's law and the law of gravity etc are not based on mathematical logic deduction, which are totally hunches and assumptions, which can't pass the test of theoretical deduction and calculation results. According to your opinions, today's astrophysicists should complete the undone work of Copernicus, Kepler, Newton and Cavendish etc, concluding into their theories and laws and formulas into mathematical logic deduction, otherwise, their theories should be denied, instead of Guo Xuannian's questioning and excessive energy and study. Guo Xuannian believes that the foundation of skyscraper has quality problem, causing enormous waste to astronautics and aeronautics, without getting accurate theoretical values. Therefore, it is in vain to renovate

solar system and universe, or get through many zigzags.

Guo Xuannian believes that double standards don't work in treating the same theory or the thing, and it is allowed to challenge its self-contradiction. Modern astrophysicists should accept the challenge of Guo Xuannian if they can't complete undone work of Copernicus, Kepler and Newton with mathematical logic deduction, who should work out the issues in question, which is the style and generosity that the experts and professors should have. Unfortunately, Guo Xuannian challenges the theories of Copernicus, Kepler and Newton, and the astrophysicists and experts don't answer, instead of justifying the theories of their founder, but suppressing and avoiding the explanation to detailed issues with macro theories. On winter of 1970, Guo Xuannian went to physics departments of Hunan University and Hunan Normal University for discussion, and professors Xiong Zhuhua and Ge Xuchu organized the teachers from physics department for discussion. Today, astronomy and physics departments from matching research units and universities excluded that, why don't they deny my questioning with mathematical logic deduction? Is this the degradation of academic atmosphere, or the professor just depending on their diploma reluctant to respond?

**3. The experiments designed by you, are all impacted by the earth's own physical environment, without theoretical value. Modern experimental physics always spends too much in creating experimental condition for getting rid of earth environment, which is not comparable. Moreover, space telescope and probe airship have observed the real outer space, demonstrating current status of the universe.**

Before the publication of *Heterodoxy on Geophysics and The Motion of Celestial Body*, no one in the world denies heliocentric theory, Kepler's law and the law of gravity and gravity constant G; no one proposes that it is wrong to unify and integrate celestial mechanics and the mechanics of the object on the ground, and gravity constant G must be measured in space lab. The experiment done by Guo Xuannian is impacted by the earth's own physical environment, just in order to deny experimental conclusion of the predecessors, and the comparability should originate from the equivalent conditions, as well as to demonstrate its correctness with its self-contradiction. If the experiments done by Guo Xuannian don't have theoretical value, all the experiments in textbooks of physics should be completed on the earth, which are all affected by the earth's own physical environment, similarly, without theoretical values. Not only all the experiments should be redone, and textbooks should also be rewritten. Modern physics and mathematics

are still conducting experiments on the earth, treating the laws and definitions demonstrated by the experiments as truth for promotion and infusion, which is self-contradictory and double-standard, misguiding the students, that's true public-fooling education.

People recognizes the law of gravity, and modern experimental physics can't get rid of the impact of the earth's own environment, nor the impact of gravity of innumerable celestial bodies, if they do, there is true space lab, and then the law of gravity doesn't come into existence. Existing astrophysicists can't figure the most fundamental knowledge, still adoring and superstitious with the theories of Copernicus, Kepler and Newton etc, which is self-deception, so that China's aeronautics industry can't lead the whole world. Our aeronautics industry still 50-60 years lags behind of US and former Soviet Union, without innovation and development. If we realize that Newton's law misguides space navigation of human being, we should correct theoretical mistakes with the experiment. The simplest method, just designing one uniformly self-rotating mechanical sphere rotating in outer space or space lab, if we prove that it is circle track, then we can unveil the truth of the motion of celestial body. If heliocentric theory, Kepler's law and the law of gravity are proved to wrong, which should be corrected and changed, then our space industry will be improved, leading the whole world. Unfortunately, my opinion is not accepted.

It is wrong that human being has observed outer space with modern space telescope and probe airship, demonstrating current universe status is correct. Because observing tools and equipments are getting advanced, but observation methodology remains the same, without replacing plane overlapping observation with space 3D observation, there is only difference between the ambiguity and the clearness, without the difference between the track and space structure. This problem has been discussed as special subject in argument 17, and it is not necessary for further discussion.

August 28<sup>th</sup>, 2013

**Analyzing and demonstrating Newton's second law and the law of gravity are opposite, correcting some wrong conceptions (paper 19)**

Guo Xuannian Water Conservancy Bureau, Zhuzhou, Hunan, China

Abstract : the second law of Newton:  $F=ma$ , where,  $m$  is mass; the law of gravity:  $F=Gm_1m_2/r^2$ , where, because  $m_1$  and  $m_2$  get mutual attraction, and there is attraction from another celestial body, under the action of

foreign force, with gravity(weight), and the conceptions of the two are totally different. Because the object only has mass, which will have acceleration if action force is given, if stopping; it can still maintain perpetual uniform motion. Due to mutual action of other object, the mass will have gravity (weight), offering the object with weight action force, it doesn't have to generate acceleration (there is requirement for the size of action force), if action force is stopped for moving object with weight, it will decelerate until still status. Because the mass and the weight have essential difference, it is obvious that the second law is not applicable to the motion of the object only with mass, and the nature that two objects have weight in the law of gravity doesn't come into existence.

**Key words** if any two (including innumerable) objects are attracted mutually, the object has its weight (gravity), and the weight is variable. Initiative object is moving (including revolution) on the surface of passive object or under the range of the gravity, it should cut gravity (magnetic force) line by moving object, affected by attraction resistance. If action force is stopped for the object with weight, without keeping perpetual motion, it will be under still status.

paper 2 states attraction resistance, which is generated from mutual attraction between two celestial bodies (objects), whose action is to keep celestial bodies (objects) with mutual attraction relatively still, and the smaller object, is under still status firstly. It is not limited to the earth and the object on the surface, as well as two celestial bodies, if the earth and the moon are mutually attracted, the gravity of the earth will stop rotation, even integrating into one. In fact, there is no phenomenon of stop and integration, which demonstrates that the earth and the moon are not mutually attracted, and attraction force of any object and celestial body has its effective distance. Attraction force can generate attraction driving force, as well as attraction resistance, which comes into existence according to positive and negative opinions of philosophy. Because Newton discovers that celestial body and object have attraction, instead of attraction resistance, which not only comes up with ridiculous the law of gravity, but also misleading the astrophysicists not to accept the existence of attraction resistance. In order to demonstrate that there is attraction resistance in another way, we can demonstrate that the second law of Newton comes into existence, then the law of

gravity doesn't come into existence; in fact, demonstrating attraction force of celestial body has its effective distance, we can demonstrate that the law of gravity doesn't come into existence.

Physical mechanics has the difference between the mass and weight (gravity), because there is no strict definition between the two, making many people confuses their conceptions. Strictly speaking, only the object with internal force and gravity action can be expressed with  $m$ , and the mass is isolated constant; comparing with the object imposed with foreign force, the object with its own internal force and gravity action and attraction of foreign force, can be called weight (gravity), which can be expressed with  $mg$ (gravity has its direction), and the relationship between them is variable. This is because the size of gravity from any celestial body and object is different, and the size of gravity is relevant to the distance,  $g$  is a variable, therefore, weight is variable. Galileo did acceleration of gravity experiment: firstly, it is limited to the earth; secondly, he did the experiment without distinguishing different height to the ground, therefore, not coming up with the conception that  $G$  is variable.

People should also realize that, if the object with mass  $m$  is affected by force  $F$ , it will generate acceleration  $a$ , if action force is stopped, it will keep uniform motion; without disturbance of foreign force, it can keep perpetual motion (perpetual motion machine).  $Mg$  is different, the action given to it  $F$  is smaller, still keeping still, if action force  $F$  is bigger than initiating force, it may generate the motion of acceleration, if action force  $F$  is stopped, it will decelerate until still. This is because the object with weight has gravity direction, and object motion is to change the direction of gravity, it needs action force, and this action force is attraction resistance. This is essential difference between mass  $m$  and weight  $mg$ , which can't be confused.

The second law of Newton:  $F=ma$ , must come into existence without being affected by attraction action of any foreign force. If any object on the surface is affected by gravity of the earth, it will have weight  $mg$ , because the object has the actions of gravity, attraction, friction and air resistance, without doing perpetual motion, i.e.  $F=ma$  is not applicable to the motion of the object on the surface of the earth or under the range of gravity. If the astrophysicists are going to launch the rocket into the orbit circling around the earth, changing  $F=ma$  into  $F=m(a+g)$ , it is hard to derive accurate calculation result(bigger), because acceleration of gravity  $g$  will be decreased due to the rising of the rocket, and you can test that. Acceleration of gravity on the ground  $g=9.8m/s^2$ , which should be tested according to rising 500km section by section, then we can test the height while  $g=0$ (the distance to the ground). People can't accept



the conception of attraction resistance, and we can also say, the motion of any object with gravity is affected by resistance action, which can't do perpetual motion without providing dynamic energy. Therefore, people can't find out perpetual motion object on the surface of the earth (celestial body) or under the range of the gravity, and this is also the reason why perpetual motion machine can't be made on the earth.

Artificial earth satellite can't circle around the earth perpetually, and that's because artificial satellite hasn't gotten out of effective attraction distance of the earth, and it has gravity due to having attraction of the earth. The astrophysicists don't have the conception of attraction resistance, who can't accept that the object with gravity can't be in motion perpetually, and it is believed that the earth is covered with atmosphere, and air resistance impacts perpetual motion of artificial earth satellite. People should think about that the moon doesn't have atmosphere, and there is no air resistance at all, why can't artificial moon satellite circle around the moon perpetually? Only correct explanation is, artificial moon satellite doesn't get out of the moon's effective attraction distance, and the moon's attraction to artificial satellite makes artificial moon satellite have weight (gravity), which can't circle around the moon perpetually.

People recognizes that there is gravity if one object and another object have mutual attraction, instead of perpetual motion, then they will understand that heliocentric theory and the law of gravity are ridiculous, misleading the intellectuals on the earth. For example, mutual attraction force between the earth and the moon is  $1.984 \times 10^{22} \text{N}$  (argument 16), and the moon's weight (comparing with the earth) is  $2.024 \times 10^{21} \text{kg}$ . if the law of gravity doesn't come into existence, and the distance between the earth and the moon exceeds their effective attraction distances combined, then the moon's weight doesn't come into existence, if there is only several thousands km between the moon and the earth, then the moon not only has its weight, which is much more than  $mg = 2.024 \times 10^{21} \text{kg}$ , if the moon falls onto the earth, whose weight will be maximum. Because celestial body (object) can't do perpetual motion, we can demonstrate that the moon is not circling around the earth, there is no mutual attraction between the earth and the moon. Through calculation, we can find out that mutual attraction between the sun and the earth is  $3.545 \times 10^{22} \text{N}$  (argument 16), comparing with the sun, the earth has its weight  $3.617 \times 10^{21} \text{kg}$ , and the earth with gravity can't revolve around the sun for long time. Because the motion of celestial body has its period, demonstrating they have effective attraction distance, there is no infinitely mutual attraction, which is a circle motion respectively.

From  $F=ma$ , only the object has its weight  $m$ ,

without weight  $mg$ , demonstrating celestial body(object) with perpetual motion in outer space doesn't have attraction action of other celestial body(object). Newton came up with the law:

$$F = G \frac{m_1 m_2}{r^2},$$

which not only establishes that two

celestial bodies are mutually attracted infinitely, but also any celestial bodies can be mutually attracted, then any celestial body not only has its weight, but also weight, which can't do perpetual motion. Thus, the motion of celestial body has two kinds of possibilities, firstly, all the celestial bodies are doing irregular Brownian motion; secondly, every individual has been attracted by innumerable attraction, and small celestial bodies will be merged by big celestial bodies. Now, all the sphere celestial bodies are doing regular cycle motion, demonstrating that the law of gravity doesn't come into existence.

The astrophysicists derive the first cosmic velocity of launching artificial satellite, which is calculated combining the formula of the law of

$$\text{gravity } F = G \frac{m_1 m_2}{r^2},$$

the formula of centripetal

$$\text{force } F = \frac{mv^2}{r}.$$

There are two reasons for its success:

firstly, gravity constant  $G$  is bigger, with safe insurance coefficient; secondly, not considering the action of gravity  $mg$  under universal gravitation, only taking the mass of celestial body as  $m$ ; thirdly, the distance acquired  $r$  is much less than the sum of effective attraction distances of two celestial bodies, therefore, it wins the success. Thus, mutual attraction of celestial bodies has been ruled out, which is to deny the law of gravity, just demonstrating there is no mutual attraction for celestial bodies, which is doing its own circle motion.

Now, launching artificial satellite can't predict the data accurately, with considerably sizable error; the docking between Tiangong No.1 and Shenzhou No.8 in outer space needs more than 1000 experiments before its success, demonstrating that theoretical calculation is rough and not precise; there are two reasons: firstly, gravity constant  $G$  (likely variable) is not tested in space lab; secondly, testing the relationship between acceleration of gravity and the change of ground distance. Because calculation theory formula is not precise, the result is rough naturally, only being corrected with practice and approaching to correct value. If calculation formula is correct, then muzzle velocity of launching artificial satellite, the height to the ground, circling loop number and total stroke, and detailed moment of return will be under the control of the experts. Now, the country launching artificial satellite doesn't predict

the result, and it may be covered due to without accurate data.

This paper gives the definitions and characteristics of object weight and mass, and demonstrates that the second law of Newton  $F=ma$  is not applicable to the motion of the object on the surface of the earth(celestial body) or under the range of the gravity, however, there is only the object(celestial body) with mass  $m$  has the motion  $F=ma$ , also determines that the second law of Newton comes into existence, then the law of gravity doesn't come into existence, and only one of them can be selected. Since there is no the law of gravity, the celestial bodies can't be attracted mutually, and heliocentric theory is empty, and there is no revolution for celestial bodies, which is doing its own circle motion. People derive effective attraction distance of celestial body(object)(the distance that acceleration of gravity is zero), as well as the law that the acceleration is changing from the big to the small, and the weight and attraction resistance of artificial satellite and object circling around celestial body are relevant to acceleration of gravity. Mastering these data, not only human being's aeronautics will generate enormous progress, but also knowing how to protect the earth and develop cosmic resources, more importantly, people can find out more than half of planets in the solar system, and even move to earth-like planet for living.

In order to accelerate the world to recognize new theory of motion of celestial body, three experiments can be done to work out the problems: firstly, testing if there is electron flow in boiled steel water, if it is, then the reason why celestial body is self-rotating is proven; secondly, manufacturing one mechanical sphere with uniform self-rotation, which is put into space lab or space for rotating, demonstrating uniform self-rotation can displace into circle track; thirdly, demonstrating the earth is revolving around the sun with mapping methodology or simulation experiment, and the people living in north sphere of the earth can't see North Star in 70% time, if they can see North Star at every night, it can demonstrate that the earth is not revolving around the sun. These three experiments can't be done by individual, which has so much difficulties, but it is easy for the government to do it. National research institutes should attach great importance to new theory of the motion of celestial body, and don't let research results ahead of the world and benefiting human being be sealed.

Unfortunately, our country can introduce fiction movie for promotion, shoot some noveletish TV series, political achievements wasting manpower and money, and there are platforms to choose athletes, performers and singers. Based on the fact that heliocentric theory and the law of gravity just originate from the hunches

and assumptions, and there is no complete theoretical basis, nor does model experiment, Guo Xuannian come up with new theory for the motion of celestial body. Copernicus, Kepler, Newton and Cavendish can blind the people in the whole world; at least he can't fool all the Chinese. New theory for the motion of celestial body not only has more than 100 thousand words, but also model experiments in the equivalent conditions, surprisingly, after I sent my materials to Chinese Academy of Sciences and its affiliated research units, observatory, magazines, and astronomy departments of the universities and well-known experts, under the premise at my costs, which were excluded. Not only no one solved the confusion, there was no even response, why are Chinese academic atmosphere degrading? Choosing alternative, asking the press to publish my book at my costs, this was also excluded, without the mercy to technology books. Chinese civil technology amateurs become unattended, why not the government set the platform for them? Don't forget, there are talents in the civil society, and every prosperous dynasty and virtuous king focus on the selection of talent, not letting the talents fall into the civil. Guo Xuannian is the senior citizen with valetudinarianism, just asking some research units, experts and scholars can identify my study results for over 40 years, which is so hard! Bian He presented one uncut jade to Chuli King, Wu King just identified the verification from one jade craftsman, so that Bian He's two legs were cut, which caused tragedy! Chuwen King clarified the truth, Bian He's injustice was exonerated, and this story warned the successors. China has so many astrophysicists, and Guo Xuannian believes there will be one can identify my work, so I promote my opinion.

Civil technology personnel with his/her own project has his/her heart to make our country become rich and great power, as well as incomparable enthusiasm, without costing the money of taxpayers, and I will take the risks personally, if it succeeds, which will benefit the country and livelihood. The government should state that matching research unit identifies civil research result, if its value is determined, which should be supported strongly. Research paper is not political article and civil novel, which shouldn't be bound uniformly by public opinion, and the magazines are allowed to publish unrecognized result paper( stating personal opinion), then triggering the focus of society and the discussion and debate of insiders, identifying it is correct or not, and it is inappropriate to make comprehensive force-out. The nation needs to be revived, and the key is to reform political system, and the pioneering of science and technology and high-speed development of the productivity, therefore, it should establish competitive platform for selecting politicians,

scientists and economists, and the talent is the first element for great power and rich livelihood.

Guo Xuannian has sent new theory of motion of celestial body to CAST, after receiving the response from service center of CAST, I asked to discuss with the experts. On May 14<sup>th</sup>, I visited CAST, but I was asked to service center of CAST, and comrade Wang responsible for reception said: "CAST is just a unit in charge of technology management, instead of discussing research issues", I was so disappointed. On August 3<sup>rd</sup>, I received a letter from service center of CAST, informing me that this center established the project of receiving the letters from technology personnel, aiming at establish communication channel between the visitors and mainstream science community and found one platform to discuss, exchange and study together with the experts. After excitement, Guo Xuannian sent electronic version to them on August 5<sup>th</sup>, there is still no return receipt, and sent printed materials and model experiment CD on 11<sup>th</sup> with the express, waiting for good news, but no response.

Because matching research units, universities and colleges are reluctant to identify academic results, Guo Xuannian ever wrote to our premier Wen Jiabao and Li Keqiang, which was not solved yet. If service center of CAST can't keep their promise, I will ask our president Xi Jinping for support. There are many organizations in China, with enormous official, expert and professor team, however, the channel that civil researcher asks for identifying research results is closed, which makes people sigh emotionally!

September 1<sup>st</sup>, 2013

### Conclusion

The author of these 19 papers didn't study astrophysics in college. However, through over 40 years of thinking, he dared to propose different opinions based on his findings that suppositions of Kepler's first law are denied, heliocentric theory is not based on facts or theories, and the law of universal gravitation is against facts and mathematical rules. The author believes that his theories and opinions are correct, yet he has conditions to conduct experiment in the space and observe stars. Nor is he aware of the latest progress on astrophysics. So he meets great difficulty in establishing his theories.

History tells us that there had been major mistakes in politics, economy, culture and science and technology, and it's a long way to correct mistakes and seek for truth. Actually not all leading social systems and science and technologies come from authorities, which could be proved by Chinese Zhengguan period and its four great inventions. Also, the Chinese four great classical novels are written by poor scholars

instead of famous people. The father of rice Yuan Longping has no bachelor's degree or title of professor, yet he achieved world-shocking result in hybrid rice and became an academican of Chinese Academy of Engineering. This is mainly because of the solid agricultural science bureau and his unremitting exploration and pursuit for science.

Most scientific research results come from people at basic level and practitioners, instead of those with high degrees. Loo-Keng Hua, who had served as a librarian, became a world-class mathematician. Copernicus also became a century-known astronomer, despite he was once a monk. Zhu Yuanzhang was once a beggar, yet he became a pioneering emperor. So talents are defined not by their birth, but their persistence and pursuit for excellence.

Guo Xuannian, although without advanced education on astrophysics, dares to propose new opinions against the heliocentric theory, Kepler's law and the law of universal gravitation. He dares to explore and study so many problems that he found in these theories. He visited universities, conducted discussions with teachers and got response from related units during the Cultural Revolution.

After retirement, since he found no one has raised any doubt on these theories, he had to resume his study on geophysics and celestial movement. He wrote the book Heterodoxy on Geophysics and Celestial Movement and 11 papers as well as model experiment. Since May 2011, he had been sending related materials to CAS, its subordinate physics research institute, geology and geophysics research institute, Purple Hills Observatory, Shanghai Observatory, Astronomy Annuals, Progress on Astronomy and the astronomy department of Peking University and Beijing Normal University, and promised that he could establish project at his own expense. However, he got no response, and was even rejected in his visit at universities.

From 12-17 May 2013, he came to Beijing and expected to find related unit and experts for support, but was quite disappointed. He realized that most people in China only pursue social class and authorities, and most Chinese students only pursue degrees to find a good job, without many people aiming at building a career through individual profession. Superior intellectuals in China are content with titles like professor and expert, and only few dare to undertake subjects that could lead the world. Most of them admire foreign countries, follow their footsteps or seek for stable projects from national investment; or do part-time work in big companies and enterprises. Many people in society have lost curiosity in professional issues and are too obsessed with money.

For China to achieve rejuvenation, it's necessary

to set up an open and public political system that accepts diverse opinions, fair competition and employment for talents, transparent power, superstition, criticism and accountability, so as to eliminate corruption. Also, the rapid national development lies in the leading science and technology. Now civil scientific researchers in China have no support from the China, which is quite a pity. In addition, the country should pay attention to awarding and encouraging talents that could improve productivity, conduct competition for talents of all fields, and promote the advancement of technologies and productivity. Unfortunately, in the 64 years of governance, the Communists Party of China fails to establish a mechanism that promotes the improvement of politics, science and technology and productivity.

To improve the overall national educational level, we should improve medical care system and perform sports activities for all, instead of focusing investment on only limited number of sports talents or even using national finance and manpower in sports competitions. The national physical quality is measured by the average life span. It's unfair to give privileges to small amount of people, and governance of a country should be performed in a reasonable and fair approach.

In case of crisis for the Chinese nation, there were always some vulgar scholars helping a tyrant to victimizing subjects and kill national spirit. Mao Zedong called on all people to deify himself and there appeared some vulgar scholars writing and spreading rumors, which enhanced his authority. Bo Xilai premeditated to plan to usurp Party and state power and paved the way by singing the "red song". We should eliminate those rumor songs like "The East Is Red" and "International Song" that are impractical. The lyrics shall also be close to the reality and aim at maintaining democracy and legal system, with the national and people's benefits above all others. They should be designed to improve people's consciousness, encourage people's fight against corruption, and establish a democratic and legal social system.

Party and national leaders should give equal attention to talent competitions in politics, science and technology and improvement of productivity to promote the development of Chinese politics, science and technology and economy. It's a great pity that the author fails to discriminate his Heterodoxy in China. He could only entrust Beijing Jiayinte Translation Company to translate his Heterodoxy and 19 papers into English and submit to foreign countries. Despite there's no bound in science and technology, he feels sorry for the current national system.

The Heterodoxy on Geophysics and Celestial Movement is totally individual opinions without any domestic assessment or discrimination. Correction and instruction from foreign experts are warmly

welcomed.

May 23, 2013

### **People Who Challenges Copernicus, Kepler and Newton (commentary for the model experiment)**

In 1967 Mr. Guo Xuannian proposed that celestial body has attraction to adjacent celestial bodies or surface objects that includes attracting motivation and attracting resistance, which meets the pros and cons in philosophy. The attracting motivation has long been recognized by astrophysicists, yet the attracting resistance has not been admitted till now. The reason is that it's included in friction and air resistance, thus covering up the truth about celestial movement.

Mr. Guo thins that such attraction comes from electrons revolving around the nucleus and is a reflection of magnetic field force, which decreases as distance increases and has an extremum of zero, namely the attraction of any object or celestial body has an effective distance. The gravitation acceleration for objects on the earth's surface is bigger when close to the ground and smaller when far away. The effective distance of earth's attraction could be tested at the distance where gravitation acceleration is zero. So, two celestial bodies can't attract each other at any distance.

He also thinks that the sun could be considered as passive celestial body and planets revolving around the sun as active celestial bodies. Due to attracting resistance, the sun's attraction would resist planetary rotation and revolution, and planets would approach the sun and finally integrate with it. Planets also don't revolve around each other, otherwise they'd also integrate. Now it's been found that the earth's displacement trajectory covers the moon's. However, since no celestial bodies were integrated in past over 4 billion years, it proves that celestial body doesn't attract each other, the planets don't revolve around the sun or each other, and the solar system doesn't revolve around the galaxy. Actually rotation of each celestial body is generated by its internal force, which further enables displacement along different trajectories without any so-called revolution.

Copernicus raised the heliocentric theory since it was too complex to draw the planetary movement picture according to the geocentric theory. He made a mistake in his theory without any scientific evidence. The existence of attracting resistance could prove that both heliocentric theory and geocentric theory are wrong. The Kepler's law, Newton's law of universal gravitation and Cavendish's experiment are all wrong suppositions to maintain the heliocentric theory.

After proposing the concept of attracting resistance, Mr. Guo held a discussion in Hunan University and Hunan Normal Academy with teachers

of physics department in the winter of 1970. Since there was no model experiment at that time, his proposal was not admitted. However, both professor Xiong Zhuhua from Hunan University and professor Ge Xuchu from the Hunan Normal Academy said that “other opinions are correct if you could prove the attracting resistance exists”. At that time he could only suspend his research since he was in the countryside without time or economic conditions for model experiment. In 1973, he wanted to study physics through passing the College Entrance Examination, but was forced to study irrigation and water conservancy due to Zhang Tiesheng who handed in a blank paper and the “Gang of Four”.

Mr. Guo was excellent and diligent in his job. To eliminate the shame that Worker-peasant-soldier students were useless, he worked very hard for over 30 years with several inventions, 10 papers published in domestic and foreign magazines and 7 scientific research results, yet only two of which have been used in engineering due to difficulty in getting scientific research fund and conflict with conservative mind. He also got the achievement science and technology award for water conservancy and hydropower, and other five results have been included in his individual technical treatises as reference for future generations.

After retirement in 2010, he thought that people’s view on the world and universe could be changed by winning recognition from the world, which could further promote the development of aerospace and explore and utilize cosmic resources. He wrote Heterodoxy on Geophysics and Celestial Movement from March to April 2011 but could only entrust Hong Kong Prospect Press for publishment since no domestic press would like to do it. This book was published in February 2012. He also wrote 10 papers and sent them together with the book to related library and scientific research units and periodicals. However, he failed to raise due attention and support since the heliocentric theory, Kepler’s first law, Newton’s three mechanics laws and the law of universal gravitation are deeply rooted.

He thinks that theories could be proved by experiments although not accepted by people. Model experiment is intuitive and could more easily change people’s concept. Although the attracting resistance is only around 1 thousandth of gravity, this could still be proved through experiment.

### 1. Experiment Equipments

- 1) 2 steel balls with a diameter of 23.5mm to represent the earth, planet or smashers;
- 2) 40 sets of bar magnets to set up the magnetic field and represent the gravitational lines of celestial bodies;
- 3) 2 mechanical toy gyroscopes to display the rotation and displacement of celestial bodies;

- 4) A 950×260mm board whose longitudinal central line has a arc groove whose length is 850mm and includes 1/3 of the steel ball, and its other part is placed with a triangular block of 60mm high and 30 degrees inclined. Its slope is also carved with related arc groove;
- 5) A square board with a side length of 800mm, carved with a circle whose diameter is 570mm and that has a arc groove that could include 1/3 of the steel ball. The circle is divided to by 15 degrees. A triangular block of 45 degrees inclined and 60mm high is set along the tangent of the circle. The slope is carved with related arc groove;
- 6) A square glass pane with a side length of 800mm;
- 7) Tools like leveling rod, perpendicular plate, protractor, ruler, calculator, etc.

## 2. Conduct the following 6 experiments

### Experiment 1: prove the existence of attracting resistance

#### Methods:

- 1) Place the bar board horizontally and a triangular block of 30 degrees inclined beside;
- 2) Set a perpendicular plate at 5mm high of the triangular block and a steel ball on the top whose falling height is about 15.38mm;
- 3) Loosen the perpendicular plate and let the steel ball fall. Repeat for over 3 times and its stroke S shall be no less than 850mm;
- 4) Place 9 sets of bar magnets at each side of the arc groove with N pole and S pole opposite to each other;
- 5) Let the steel ball fall at the same height for over 3 times to cut the magnetic line of force, and its average stroke S` is around 740mm.

#### Conclusion:

Since the steel ball has longer stroke by not cutting the magnetic line of force and shorter stroke by cutting it, it proves that moving objects are subject to attracting resistance by cutting the magnetic line of force.

### Experiment 2: prove that planets would reduce its speed due to attracting resistance if they revolve around the sun

#### Methods:

1. Place a square board horizontally with circular arc groove on it, set a triangular board of 45 degrees inclined along the tangent of the circle;
2. Place a perpendicular plate at 30mm high of the triangular board, place steel ball on it and the falling height is about 35.4mm;
3. Loosen the perpendicular plate and let the steel ball fall. Repeat for over 3 times and its stroke S shall be about 315 radians;
4. Place 30 bar magnets outside the circle with

N (S) pole pointing at the center of the circle (repulsive force at the tail of the magnet is large); let the steel ball fall at the same height for many times and its average stroke  $S'$  is about 295 radians.

**Conclusion:**

Since the steel ball is attracted by the magnetic line of force, its speed and stroke are reduced, thus proving that planet's speed of rotation and revolution would reduce by revolving around the sun. So planets don't revolve around the sun.

**Experiment 3: The arc displacement displayed by the mechanical gyroscope proves that celestial body could generate centripetal force through rotation and thus perform circular displacement**

Mr. Guo proposed that any celestial body that could contract into sphere could rotate and performs circular displacement. The reason is that thermal movement is generated under high pressure and temperature, thus forming electric current. The electric current enables rotation by forming moment, and rotation further generates centripetal force to perform circular displacement.

**Methods:**

1. Place a square glass pane with a side length of 800mm horizontally, clean the surface and scatter a thin layer of flour;
2. Wind the mechanical gyroscope and rotate it on the glass pane;
3. Observe its rotation at non-uniform velocity and we could find the circular and spiral trajectories.

**Conclusion:**

Since the gyroscope has weight, friction, air resistance and fulcrum, and its rotating with decreasing speed, it's difficult to see repeated circular trajectory; instead, it's spiral trajectory. However, celestial body has no weight, friction or air resistance, and rotates at constant speed in one direction, thus its displacement trajectory is definitely circular. Kepler's first law is wrong since the sun performs circular movement due to its rotation. The manmade satellite has an elliptical trajectory due to the earth's displacement, which shall not be mixed up.

**Experiment 4: Prove the inclination of axis of the celestial body is caused by imbalanced moment instead of collision from another celestial body**

Mr. Guo proposed that the inclination of the earth's axis is caused by imbalanced moment instead of collision from the moon as astrophysicists had imagined

**Methods:**

1. Place a square glass pane with clean surface and a thin layer of flour;
2. Paste rubber dough or other material on the

mechanical gyroscope to make it asymmetrical and imbalanced;

3. Rotate the imbalanced gyroscope on the glass pane to see its inclination and trajectory.

**Conclusion:**

Some celestial bodies have inclined axes due to imbalanced moment instead of collision by another celestial body.

**Experiment5: Prove attraction has effective distance**

Mr. Guo proposed that the attraction of any material and celestial body has an effective distance whose extremum is when the gravitation acceleration is zero.

Newton's law of universal gravitation is wrong since he didn't consider the effective distance, and Cavendish's experiment could only get wrong gravitation and mass since four balls are influenced by gravity, friction and air resistance.

**Methods:**

1. Place a bar board with arc groove on it and place bar magnet in the groove;
2. Repeat the experiment till the clear distance between steel ball and the pole is over 30mm, where the steel ball won't move to the pole.

**Conclusion:**

Without influence from the geomagnetic field, the distance between the steel ball and pole could be increased by some extent, which proves that attraction from all objects and celestial bodies has an effective distance. Astronomers and physicist have calculated the attraction from the sun to the earth as  $3.56 \times 10^{22} \text{N}$ , namely each square centimeter of projection plane on earth has an attraction of 2840kg, which is completely ridiculous.

**Experiment 6: Prove that acting force and reactive force are not equal or on the same line**

Mr. Guo proposed that Newton mixed up celestial mechanics with the mechanics for objects on earth. Newton's three laws on mechanics are only suitable for celestial movement. The first law should be: earth's attraction could keep objects on its surface in relative inertia, and moving objects slowly stop due to conservation of energy. For the second law should, since objects on earth have both weight and mass, the formula  $F=ma$  is only suitable for celestial movement. The concepts in the third law are wrong, in which the acting force and reactive force should be based on collision. In addition, the water's buoyancy offsets object's weight and is totally different from movement on earth, so the conclusion is wrong.

**Methods:**

1. Place a bar board with arc groove horizontally and a wood board with arc groove of 30 degrees inclined at the right

- side;
2. Place a perpendicular board at a height of 5mm on the triangular board and a steel ball 1 at the top, which could move 850mm or even drop at the end of the wood board. Repeat it by many times;
  3. Place steel ball 2 of the same mass at a place 400mm from the end of the board, and let it roll in the same way as steel ball 1, yet steel ball 2 could only move around 140mm (repeat for many times);
  4. Repeat step 1, 2 and 3 in experiment 2, the steel ball 1 could move around 315 radians (repeat for over three times);
  5. Place steel ball 2 at 150 radians and let the moving steel ball 1 strike steel ball 2, and the two balls would move about 240 radians in total.

**Conclusion:**

Experiment shows that acting force is not equal to the reactive force. The active force is bigger than passive force; objects on earth could only perform curve movement instead of rectilinear movement, which could be proved by shooting and throwing objects.

Suggestions on the correctness of above experiment results are warmly welcomed. Since there's no boundary in science, the truth could

8/15/2013

undertake the challenges of diverse opinions. Thank you!

Designed and commented by: Guo Xuannian  
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**Author:**

Guo Xuannian,  
Zhuzhou Water Conservancy Bureau, Zhuzhou,  
Hunan 412007, China  
268 Songshan Road, Zhuzhou, Hunan 412007, China  
中国湖南省株洲市嵩山路 268 号 (中国湖南省株洲市水务局), 邮编: 412007  
联系电话: 13873300270, Email: [xuannian@126.com](mailto: xuannian@126.com)

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