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## **The working principle of airborne pulse Doppler radar can prove the error of relativity**

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**Abstract:** the frequency change caused by Doppler effect is called Doppler frequency shift, which is directly proportional to the relative velocity  $V$  and the frequency of vibration. In essence, the reason for the Doppler effect is that the relative velocity  $V$  is superimposed on the speed of light. If there is no relative velocity  $V$  superposition, there will be no Doppler effect. Therefore, it can be proved that Einstein's second hypothesis is wrong: the speed of light is the same in all inertial systems. If the speed of light is the same, it is impossible to observe the Doppler effect at all. The modified ether theory can replace the theory of relativity. On the earth's surface, the ether moves with the earth's traction, and the earth cannot drag the ether of the whole universe. The optical aberration phenomenon also shows that the earth does not drag the ether of the whole universe. The optical aberration phenomenon occurs at the junction of the earth's ether traction area and non traction area, not in the telescope lens. That is, the earth only pulls the ether around it. The planet moves with the ether around it. The ether has mass, and the ether may be dark matter. The density of ether is distributed according to the size of gravity. The closer to a planet, the greater the density of ether.

**Key words:** ether, relativity, Doppler effect

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The working principle of airborne pulse Doppler radar can be expressed as follows: when the radar transmits a fixed frequency pulse wave for air scanning, if it encounters a moving target, there is a frequency difference between the echo frequency and the transmitted wave frequency, which is called Doppler frequency. According to the Doppler frequency, the radial relative motion velocity of the target to the radar can be measured; The distance of the target can be measured according to the time difference between the transmitted pulse and the received pulse.

Doppler radar is a radar that uses Doppler effect for positioning, velocity measurement, ranging and so on. The so-called Doppler effect is that when the vibration sources such as gamma rays, light and radio waves move relative to the observer at the relative speed  $V$ , the vibration frequency received by the observer is different from that emitted by the vibration source. Because this phenomenon was first discovered by Austrian scientists, it is called Doppler effect.

The frequency change caused by Doppler effect is called Doppler frequency shift, which is directly proportional to the relative velocity  $V$  and the frequency of vibration. In essence, the reason for the Doppler effect is that the relative velocity  $V$  is superimposed on the speed of light. If there is no relative velocity  $V$  superposition, there will be no Doppler effect. Therefore, it can be proved that Einstein's second hypothesis is wrong: the speed of light is the same in all inertial systems. If the speed of light is the same, it is impossible to observe the Doppler effect at all.

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The modified ether theory can replace the theory of relativity. On the earth's surface, the ether moves with the earth's traction, and the earth cannot drag the ether of the whole universe. The optical aberration phenomenon also shows that the earth does not drag the ether of the whole universe. The optical aberration phenomenon occurs at the junction of the earth's ether traction area and non traction area, not in the telescope lens. That is, the earth only pulls the ether around it. China and Japan conduct time transmission experiments through geosynchronous satellites. The back and forth paths are the same, but the time used for electromagnetic wave propagation is different. The geosynchronous satellites, transmitting stations and receiving stations are stationary relative to the ground and rotate with the earth. Now, it is mainly explained by Sagnac effect that the loop paths are the same, but the time used for electromagnetic wave propagation is different. However, the Michelson Morey experiment is also relatively stationary and rotates with the earth. In this case, there should also be Sagnac effect, and the light interference fringes should move. However, the Michelson Morey experiment does not measure the different propagation time of light back and forth in the east-west direction. The above phenomena can be explained by the etheric traction Theory: because the height of the satellite exceeds the etheric traction area of the earth, the return path is the same due to the high-altitude wind, and the time of electromagnetic wave propagation is different. The Michelson Morey experiment shows that the ether has no relative speed with the earth on the ground, and the Michelson Morey experiment shows

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that the ether near the ground is dragged by the earth.

The radar echo delay test shows that the propagation speed of electromagnetic wave becomes slower when it is close to the sun and faster when it is not close to the sun. It shows that the density of ether near the sun is large, and the farther away it is, the smaller the density is. The density of ether should be distributed according to the size of universal gravitation. Ether should be of quality.

Relativity believes that the bending of the light passing near the sun is due to the gravitational lens effect. According to the ether theory, the bending of the light near the sun is not due to the bending of time and space, but because the ether density around the sun is distributed according to the size of universal gravitation, which can be called the ether density lens effect. Experiments supporting relativity can be explained by the modified ether theory.

Modified ether Theory:

(1) The planet moves with the ether around it. The ether has mass, and the ether may be dark matter.

(2) The density of ether is distributed according to the size of gravity. The closer to a planet, the greater the density of ether.

(3) Light only has a constant speed relative to the ether it propagates. The speed of light  $C$  is a constant only when the density of the ether is the same.  $C$  changes with the density of the ether. The greater the density of the ether, the slower the speed of light, and the lower the density of the ether, the faster the speed of light.

The speed of light  $C$  is not a constant, but changes with the density of the ether.

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$C = KD$ ,  $C$  is the speed of light in a certain density of the ether,  $D$  is the density of the ether, and  $K$  is a constant Number. Mossbauer effect proves that the speed of light changes with the density of ether. At low altitude, the density of ether is high, and the speed of light slows down, so the frequency of light increases.

(4) The greater the density of ether, the slower the reaction speed of chemical reaction and nuclear physics.

(5) Time and space are absolute and artificially set coordinates. There is no time expansion, shortened length and increased mass.

(6) The mass size of a particle with a static mass is affected by its ether density. When the particle is in an environment with high ether density, ether can be added to the basic particles of matter to increase its mass. Just as high-pressure gas dissolves in water, the mass of the basic particles of matter increases. At the same time, atoms become smaller, and the chemical and nuclear physical reactions of matter with larger basic particle mass become smaller Slow.

(7) When a particle with a static mass moves faster relative to the ether, the more ethers passing through the particle per unit time, which is equivalent to the increase in the density of the ether around the particle. The addition of ether to the material particles increases the mass, and the increase in the density of ether slows the chemical reaction and nuclear physical reaction, the measurement shows that the time expansion of the material moving relative to the ether conforms to the formula:

$$t=t_0/[1-(V^2/C^2)]^{1/2}$$

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The scaling effect conforms to the formula:

$$L = L_0 / [1 - (V^2/C^2)]^{1/2}$$

The mass increase conforms to the formula:

$$M = M_0 / [1 - (V^2/C^2)]^{1/2}$$

(8) The annihilation of positive and negative electrons does not disappear, but the positive and negative electrons are "crushed" into ether. When mass is transformed into energy, the mass does not disappear, but "crushed" into ether. When gamma rays generate positive and negative electrons, it is energy that gathers ether into positive and negative electrons, which conforms to  $e = MC^2$ .

(9) Explanation of the twin paradox: the explanation of relativity is that twins are in different time and space. In fact, the number of surrounding ethers per unit time increases relative to the etheric movement, which is equivalent to being in a high-density etheric environment, so the speed of chemical reaction slows down and the relevant reactions in nuclear physics slow down, which can explain the experiments on prolonging the life of particles.

(11) Explanation of optical aberration: the earth pulls the ether around it to move together. Optical aberration occurs at the junction of the earth's traction area and non traction area, not on the telescope lens. It can not be said that optical aberration phenomenon denies the ether theory.

(12) Explanation of gravitational wave detection: according to the theory of relativity, when the gravitational wave passes through, the space-time fluctuation, the arm length of the interferometer also expands and contracts with the

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frequency of the gravitational wave, and the propagation distance of the laser in the interferometer also changes corresponding to the gravitational wave, so interference fringes are generated. In short, they are caused by space-time fluctuation. The interferometer and the laser are in the same place in space-time, the speed of light remains unchanged relative to space-time. When space-time shrinks and expands, the speed of laser shrinks and expands with space-time, shrinking and expanding synchronously, so the interference fringes cannot be measured.

According to the modified ether Theory: in fact, the gravitational wave is the fluctuation of the ether density. The speed of light is slow when the ether density is large and fast when the density is small. The change of the speed of light makes the LIGO and aligo interferometers detect the gravitational wave. The gravitational wave is not detected because the arm length of the interferometer is extended due to the spatial fluctuation. Space-time is still absolute space-time, and there is no relative space-time.