

General relativity

From the world learned of the revolutionary Special Theory of Relativity proposed by Albert Einstein and published in 1905, physics underwent its most revolutionary change since the days of Isaac Newton. Nevertheless, Einstein had yet another surprise left: the so-called General Theory of Relativity, of 1916—a much more complex and complete theory from which several interesting predictions arise and have been confirmed over time.

Why a second theory?

According to Einstein, the laws of physics are the same for everyone, no matter how fast they are moving, and in all circumstances. This means that the laws of physics are the same for someone standing on the ground as they are for someone falling freely toward the Earth, making it impossible to distinguish between the two situations by conducting any experiment. Einstein solved the problem of providing an theory by providing the equivalence principle.

A deformed universe

Einstein established that gravity was not a force, but rather the consequence of the deformation of space-time that any body with mass generates. Mass, when accumulating in a star, for example, an object is not affected by any force, but it travels through that curved deformation.

The most fundamental of all laws, the laws of physics, are the same for everyone, no matter how fast they are moving, and in all circumstances.

Light that bends

Perhaps the most surprising confirmation of one of Einstein's predictions, based on the General Theory of Relativity, happened not in 1916 during the course of a solar eclipse.

According to the General Theory of Relativity, the laws of physics are the same for everyone, no matter how fast they are moving, and in all circumstances. This means that the laws of physics are the same for someone standing on the ground as they are for someone falling freely toward the Earth, making it impossible to distinguish between the two situations by conducting any experiment.

In 1919, Arthur Eddington was the first to test Einstein's theory by observing the bending of starlight during a solar eclipse. The results confirmed Einstein's prediction that the path of light is curved by the gravity of the Sun.



4 dimensions

For the universe according to Einstein's theory, although the laws of physics are the same for everyone, no matter how fast they are moving, and in all circumstances.

Gravitational lenses

Another prediction based on the General Theory of Relativity concerns gravitational lenses. Because of the deformation, which is also related to the attractive interaction caused by gravity, the image of certain far stars and galaxies is distorted when seen from the Earth.



The image that is produced by the gravitational lensing effect is distorted and magnified. This is because the light rays are bent by the gravity of the lensing object.

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ALBERT EINSTEIN

The most important prediction of the General Theory of Relativity is the prediction of gravitational waves. These are ripples in the fabric of space-time that are produced by the acceleration of massive objects. Einstein predicted that these waves would travel at the speed of light and would be produced by the acceleration of massive objects.

Electromagnetic waves

Einstein showed that in certain gravitational fields, light waves are distorted. In other words, the speed of light is not constant in all frames of reference. This is because the speed of light is affected by the curvature of space-time.



Perturbation of Mercury's orbit

Astronomers had discovered a discrepancy in the orbital motion of the planet Mercury that could not be explained by Newton's theory of gravity. Einstein's theory of general relativity provided the explanation for this discrepancy.



Status Of General Relativity

JS Bruner



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