

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 all observers, but the way they are perceived is different. Einstein's theory of relativity is a generalization of Newton's theory of gravity, which is only valid in the case of weak gravitational fields. Einstein's theory of relativity is a generalization of Newton's theory of gravity, which is only valid in the case of weak gravitational fields.

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, or placed in an object, is not affected by any force, but it bends through that curved deformation.

The most fundamental principle of general relativity is that the laws of physics are the same for all observers, regardless of their state of motion.

Light that bends

Perhaps the most surprising confirmation of one of Einstein's predictions, based on the General Theory of Relativity, happened in 1919 during the course of a solar eclipse.

According to the General Theory of Relativity, the path of light is curved by the presence of mass. This was first demonstrated during the total solar eclipse of 1919, when the positions of stars were observed to shift slightly from their expected positions.

In 1919, British astronomer Arthur Eddington led an expedition to observe the total solar eclipse of May 29, 1919. The expedition was successful in observing the bending of starlight by the Sun's gravity.



4 dimensions

For the universe according to Einstein's theory, although the three dimensions of space, there is also a fourth dimension: time. This fourth dimension, which is time, is what makes the universe a four-dimensional spacetime.

76 years

It took Einstein 76 years to develop his theory of general relativity, which he published in 1916.

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 lensing effect is a direct consequence of the curvature of spacetime caused by the presence of mass.

Gravitational lenses are used to study distant galaxies and to measure the mass of the lensing object.

ALBERT EINSTEIN

The most revolutionary prediction that the theory made was that the path of light is curved by the presence of mass. This was first demonstrated during the total solar eclipse of 1919, when the positions of stars were observed to shift slightly from their expected positions.

Electromagnetic waves

Einstein proposed that as massive gravitational fields bend the trajectories of stars, in other words, they would make them lose energy. Because massive "objects" when being moving about in "the vacuum matter", they affect which cause a radiation in the shape of electromagnetic waves.



Perturbation of Mercury's orbit

Astronomers had discovered a discrepancy in the expected position of the planet Mercury that could not be explained by Newtonian or classical physics without including some hypothetical planet. Einstein used his theory to explain the discrepancy, calculating the position of the missing planet.

The discrepancy in Mercury's orbit was one of the first major tests of general relativity. Einstein's theory predicted the correct position of Mercury, which was confirmed by observations.



Status Of General Relativity

RS Peters



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