

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 must be the same for all observers. In Newton's theory, only objects at rest or moving at a constant velocity are subject to the same laws. According to Einstein, all objects are subject to the same laws, regardless of their state of motion. Einstein solved the problem of providing his 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 approaching a point, for example, an object is not attracted by any force, but it travels through that curved deformation.

The most characteristic of gravity, according to Einstein, is that it is a local phenomenon. It is not a force that acts at a distance.

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 confirmed during the solar eclipse of 1919, when the position of stars was observed to shift due to the curvature of space-time caused by the Sun's mass.

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4 dimensions
For the universe according to Einstein, space, although the fourth dimension, is not independent from the other three (length, width, and height).

Gravitational lenses

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



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The orbits of comets around the Sun, which are elliptical, were explained by Newton's theory of gravity. However, the discovery of the perihelion advance of Mercury's orbit, which could not be explained by Newton's theory, led Einstein to develop his General Theory of Relativity. This theory predicted that the orbits of planets would be slightly different from those predicted by Newton's theory, and this was confirmed by observations.

Electromagnetic waves

Einstein proposed that as objects approached their speed of light, the laws of physics would change. This would mean that the speed of light would be constant for all observers, regardless of their state of motion. This prediction was confirmed by experiments.



Perturbation of Mercury's orbit

Astronomers had discovered a discrepancy in the orbital position of the planet Mercury that could not be explained by Newton's theory of gravity. Einstein's General Theory of Relativity provided a solution to this problem, predicting that the orbit of Mercury would be slightly different from that predicted by Newton's theory.



76 years
The time it takes for Mercury to complete one orbit around the Sun.

Status Of General Relativity

Daniela Niemeyer



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