

The development of optics

Man kind has speculated about vision and light since antiquity. Plato thought that the eye emitted particles that made objects visible. Pythagoras thought that objects projected light particles into the eye. Aristotle thought that its particles moved through waves from the objects to the eye. It was not until the 17th century that "light was laid" on its physical properties.

LIGHT DEBATE

The nature of light was long discussed among scientists. Isaac Newton (1642-1727) believed light were composed of particles that moved in straight lines. However, later ideas and evidence proved the wave like nature of light beams. Among them, the diffraction observed by Francesco Grimaldi (1665), the suggestion of Christiaan Huygens to compare light to a mechanical wave in physical environment, the experiment of the "double slit" by Thomas Young in 1801 and the equations by James Maxwell in 1864, that classified light among electromagnetic waves.

LIGHT AS A WAVE

Christiaan Huygens (1629-1695) was a Dutch astronomer and physicist. He proposed that light is a wave phenomenon. He also proposed that light waves travel in straight lines.



When going through the two slits, the light from a narrow source is diffracted or scattered following a pattern.

WHITE RAY

A narrow colour spectrum is reflected on the surface in front of the window. Red, orange, yellow, green, blue, indigo and violet.

WAVING ENERGY

French, Irish and English scientist that light has dual properties. It spreads like a wave but also like particles of energy "photons".

SPECTRAL LIGHT

Newton used the new philosophy to understand the world: observing, testing and thinking. In this way, towards 1666, he was able to prove that light, that was considered white, was really made up of coloured lights that deviated their trajectory in different angles. By reflecting them passing through a crystal prism, in 1671, Newton gave it the name of "light spectrum".

LIGHT SPECTRUM
Natural light comes through a small hole in the window of the room where Newton had his laboratory.

TELESCOPE

As part of his studies on the nature of light, Newton also invented a kind of reflector telescope.

PRISM

Placed in a hole, the triangular structure of crystal splits white light into a band of colours.

EXPERIMENT
He isolated each of the colours by making small holes on the screen.

DID YOU KNOW Documents

Newton personally drew all the details of his experiment in a diagram.

Theory Of Optics

Karin Nielsen-Saines



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