

Synopsis

The Speed of Light

In an experiment at LNGS-Laboratory in Gran Sasso in Italy, that cooperates with particle accelerator CERN in Switzerland, proofs have been found that subatomic particles move faster than light speed.

In this CNGS (Cern Neutrinos to Gran Sasso) experiment Neutrinos - tiny particles with no charge and almost no mass - were fired from CERN to a huge underground detector in Gran Sasso. These particles are able to travel the 720 km distance through the earth without being stopped or slowed down.

In his *Special Theory of Relativity* Albert Einstein stated that the speed of light is the ultimate speed, nothing can go faster. If these neutrinos go faster than light it would have dramatic consequences. An amazing world of strange new physics will open up in front of us. The order of cause and effect could reverse. A particle might arrive before it has departed.

Visual artist and filmmaker *Mels van Zutphen* followed the track of the neutrino by car. From Geneva to Gran Sasso in 12 days. A beam of light takes 0,0024 seconds.

Logline

Filmmaker follows a track of neutrino's that is thought to move faster than the speed of light. From CERN in Switzerland to Gran Sasso in Italy. A beam of light takes 0,0024 seconds.