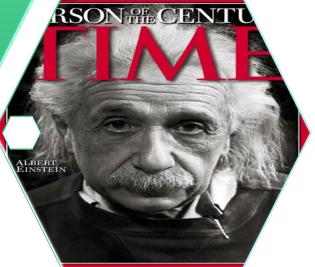




14 March 1879 Ulm (Germany) 18 April 1955 Princeton (New Jersey)

In 1921 he got the Nobel Prize in Physics «for his services to Theoretical Physics, and especially for his discovery of the law of the photoelectric effect» «He was the preeminent scientist in a century dominated by science. The touchstones of the era – the Bomb, the Big Bang, quantum physics and electronics – all bear his imprint» Dec 31, 1999



## **1905: MIRACLE YEAR**

Einstein published FOUR papers which contributed strongly to the foundation of modern physics and changed views on space, time, and matter. They were:

ABOUT PHOTOELECTRIC EFFECT Annalen der Physik 17, 132-148

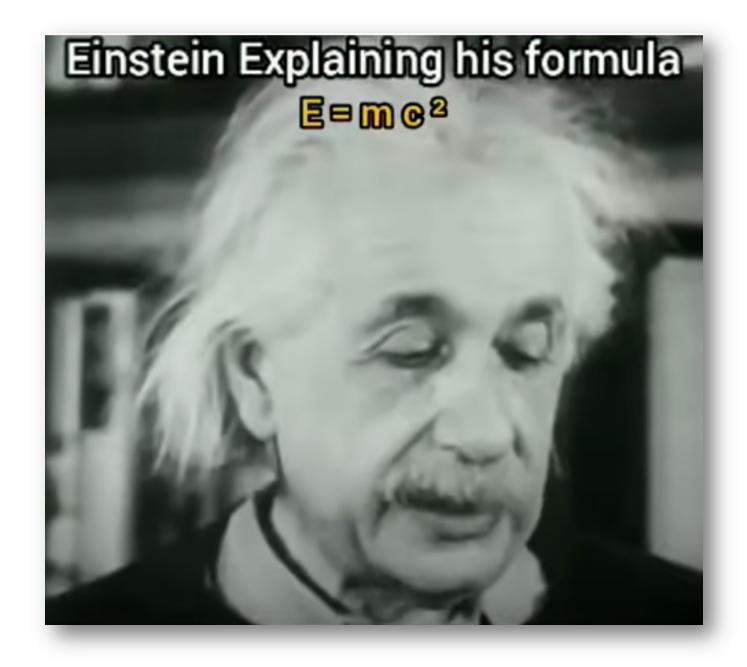
On a Heuristic Viewpoint Concerning the Production and Transformation of Light ABOUT BROWNIAN MOTION Annalen der Physik 17, 549–560

On the Motion of Small Particles Suspended in a Stationary Liquid, as Required by the Molecular Kinetic Theory of Heat

ABOUT SPECIAL RELATIVITY Annalen der Physik 17, 891–921

On the Electrodynamics of Moving Bodies ABOUT MASS-ENERGY EQUIVALENCE Annalen der Physik 18, 639–641

Does the Inertia of a Body Depend Upon Its Energy Content?

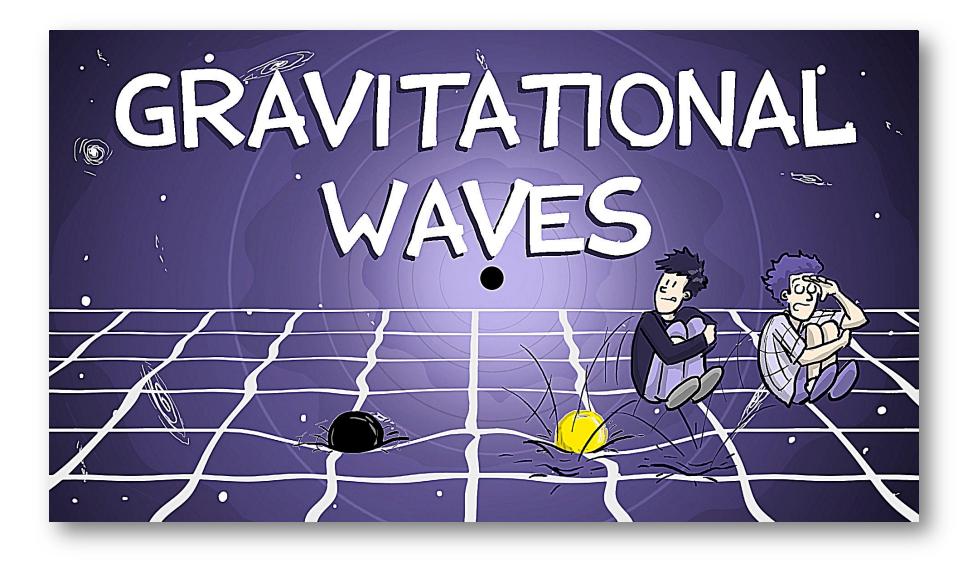


It followed from the special theory of relativity that mass and energy are both but different manifestations of the same thing, a somewhat unfamiliar conception for the average mind. Furthermore the equation "E" is equal to "MC squared" in which energy is put equal to mass multiplied with the square of the velocity of light showed that a very small amount of mass may be converted into a very large amount of energy, and viceversa. The mass and energy were in fact equivalent according to the formula mentioned before. This was demonstrated by Cockroft and Walton in 1932 experimentally.



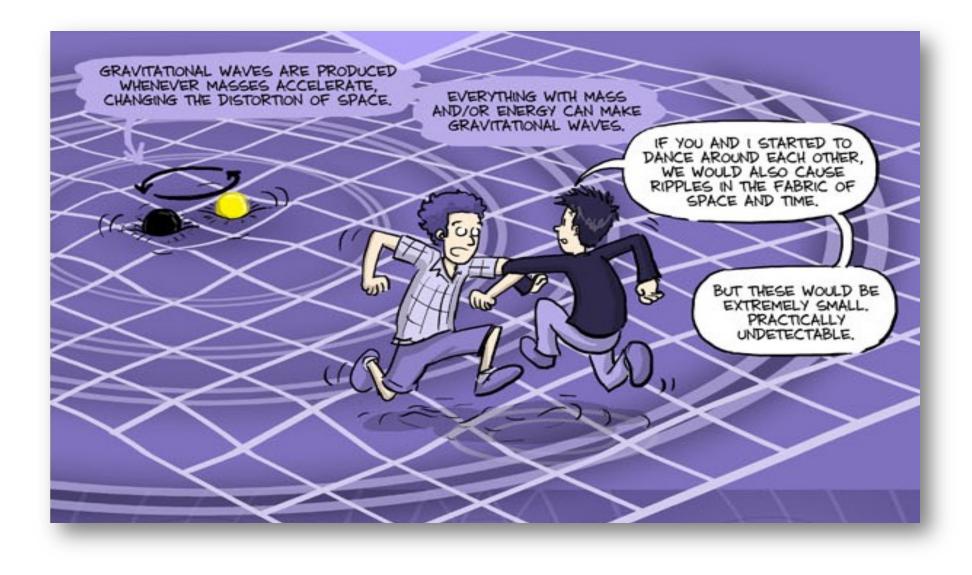
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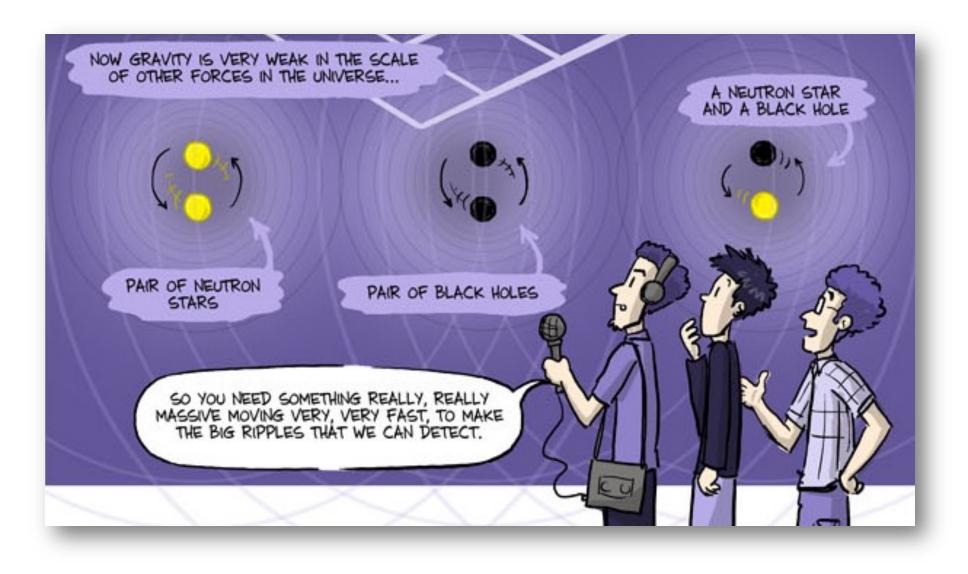


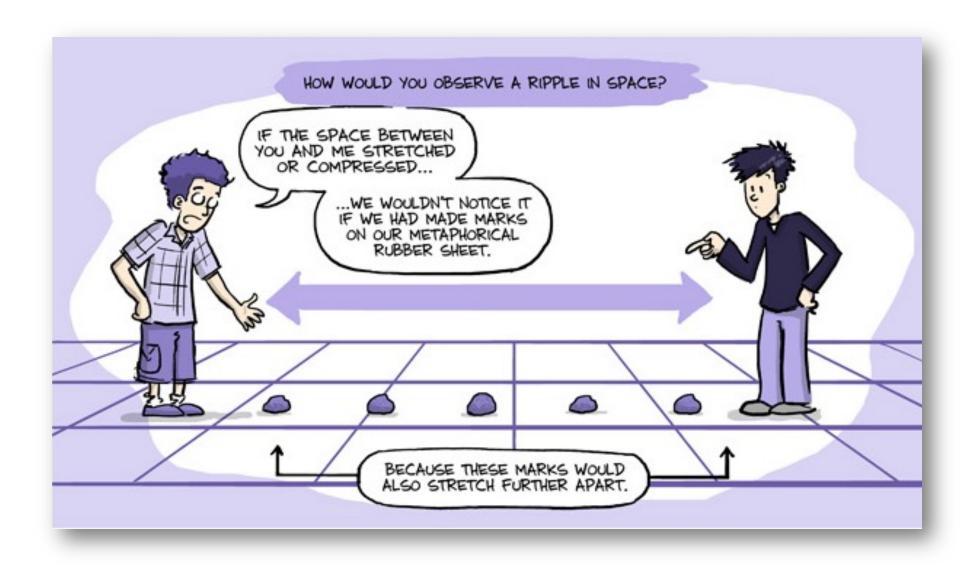


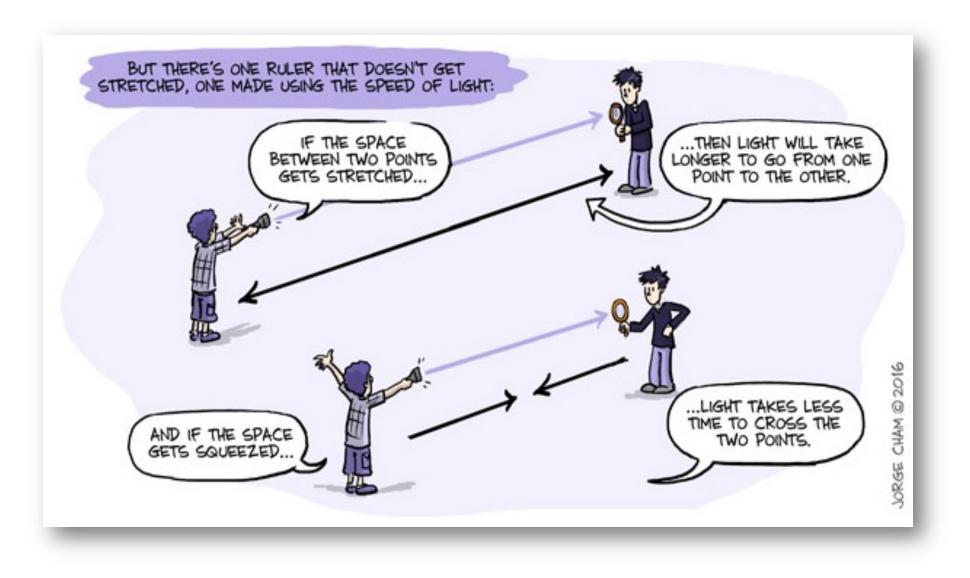


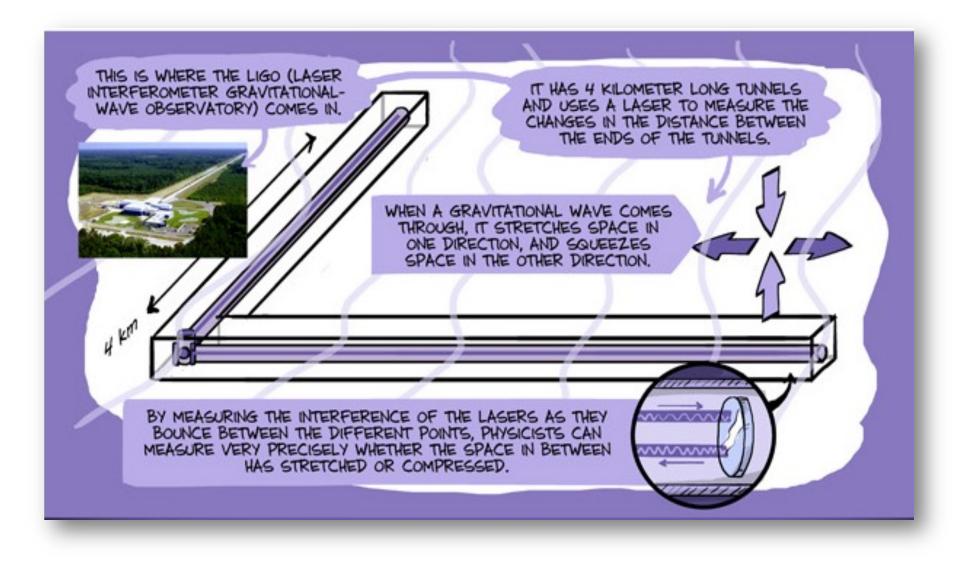




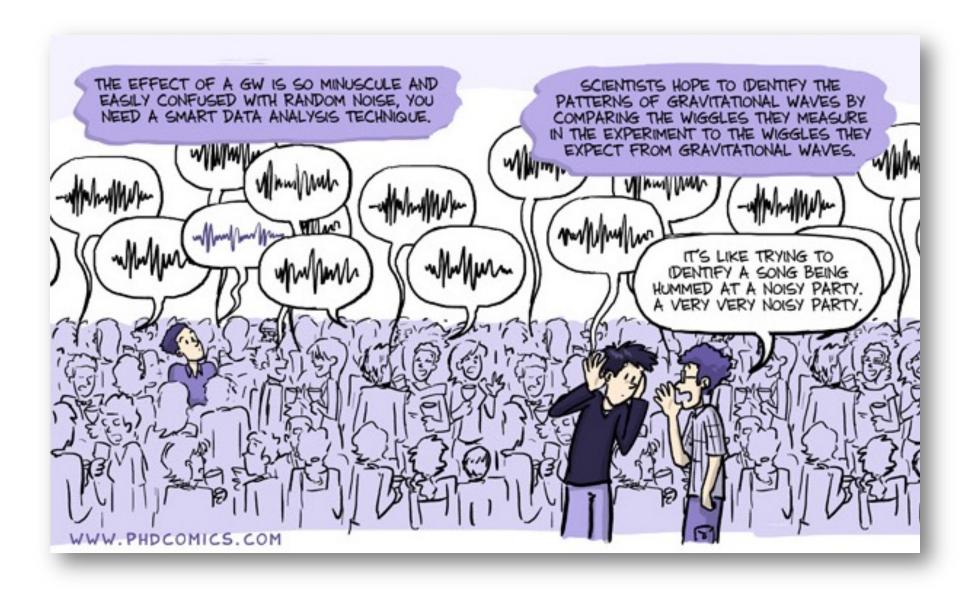


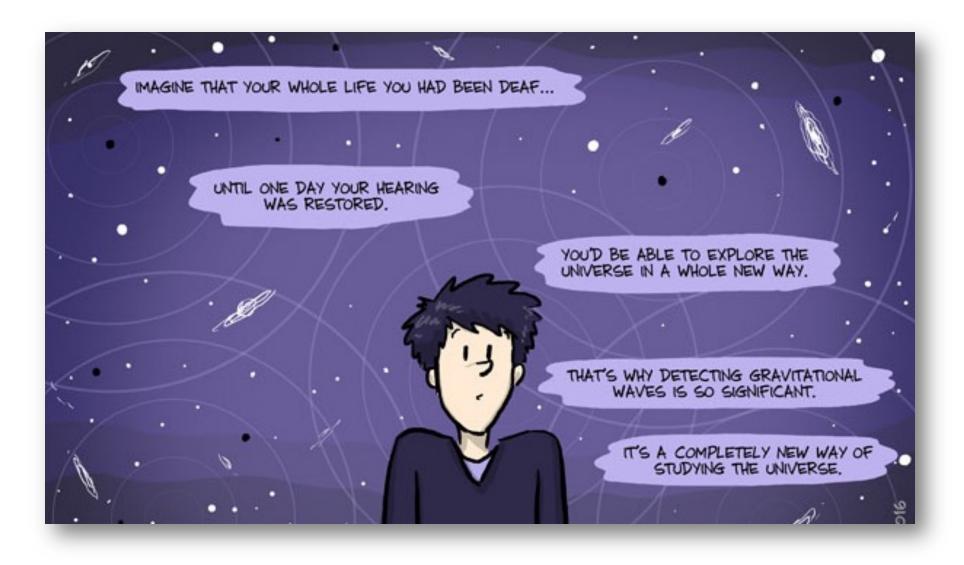


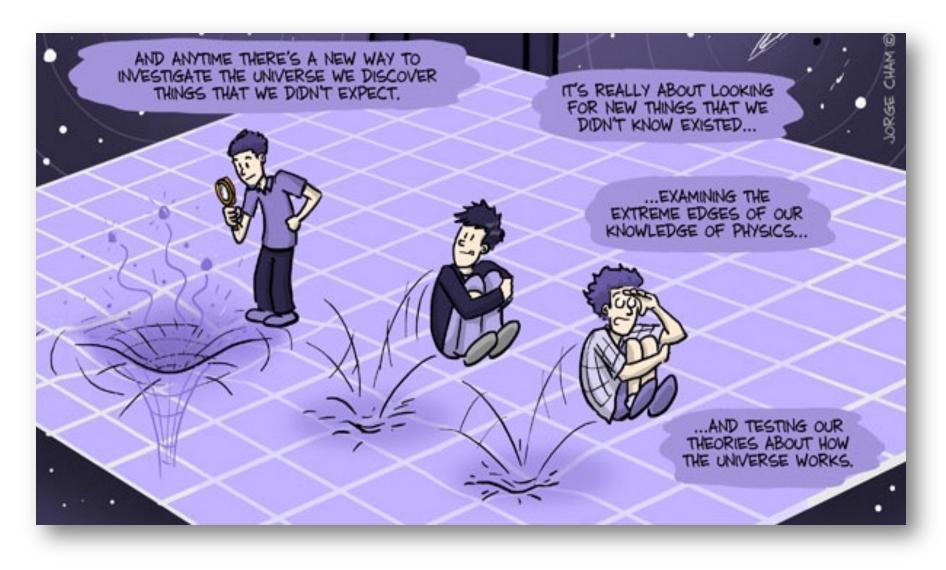
















## Address on Peace in the Atomic Era

Speech during the aft. program Mrs. Roosevelt Meets the Public on NBC television network, Feb. 12, 1950