

Project of experiment. Definition of Absolute Counting System.

Abstract. <http://universe100.narod.ru/E350-Einstein.html> .

A simple experiment is proposed, without any measurement of the speed of light, to determine the absolute reference frame in space. It can be held by every scientist who has a Foucault pendulum. That is a compact load of great weight, on a very long and thin string. This experiment will put an end to the dispute, there is an ether or does not exist.

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© Essence of the experiment. In the city of St. Petersburg there is the St. Isaac's Cathedral, in which Foucault's pendulum hung previously and without any benefit. Alas ... This pendulum was dismantled after the collapse of the USSR. But it can be temporarily restored, for scientific purposes. There are other pendulums in other cities, yes you can hang in any high room. Therefore, it is only necessary to come to S.Peterburg and agree with his leadership on the need for some scientific measurements and lightly fence the place so that the public does not interfere. Or, you can find a deep well or a high flight of stairs and hang the pendulum there. For example, in the stairwell of the main library in Moscow.

It is necessary to calculate how many oscillations, roughly, the pendulum (an integer) does in 12 hours. This is purely a preparatory action. Let this number equal N. Then we proceed to exact procedures. Let us measure with high accuracy the time during which Foucault's pendulum makes N oscillations at that time of the day when the motion vector of the cathedral (due to the rotation of the earth around the axis) in space coincides with the motion of the Earth in space. Roughly speaking, this is from 6.00 to 6.00 in the morning. To fix very precisely this time, to hundredths (yes even to millionth) fractions of a second. Then measure the time of making the same number of fluctuations N in the daytime, from 6.00 am to 6.00 pm. And compare these times. I do not want to guess at once what time will be longer, and how much less, but the difference should be! And to "align" the experiment, you can make a measurement from 00.00 nights to 12.00 a day and from 12.00 to 24.00 at night. Each time, the same number of oscillations N is measured, approximately given by the average for this period of 12 hours.

Option: to measure the number of vibrations not in 12 hours, but in one hour, when the linear velocity of the Earth's surface at this point is closest to the linear velocity of the center of the Earth as it rotates in orbit. Various variations of the Foucault pendulum experiment are possible.

The difference should be and this will experimentally disprove the main postulate of the theory of relativity of Einstein. We live in an era of spurt of technology and a spurt of reason towards the Truth, towards the true picture of the World. And this picture is expected to be very unconventional and mysterious.

This experiment will put an end to the dispute, there is an ether or does not exist.

Russian: <http://universe100.narod.ru/>

English: <http://universe100.narod.ru/E100-Oglavlenie.html>

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