

Values to find, under the analysis of relativity

NBS (No Bend Space).

José Luís Pereira Rebelo Fernandes

Rebelofernandes@sapo.pt

Measuring the speed of light in different references

Another confirmation of this theory, happen to measure the speed of light in different referential.

As we all know today, there are two places to which mankind goes to which have different times to those on Earth. We are of course referring to the space station and to the Moon.

If we measure these benchmarks the speed of light we obtain apparent velocities undoubtedly different from those found on Earth.

It is curious how humanity created the standard measures for regulation and for the speed of light has yet created the necessary equipment for their definition.

It is now proposed for creation.

To a photon with very low energy.

Place the surface with rotation Ref: Earth time in Ecuador, h = 0	Advance the clock for a day, for the time on Earth nanoseconds	Speed of light	Differential C local - C Earth	Modification of the length a)	Apparent speed of light.	Differential apparent local C - C Earth	Universal gravitation variable (G)
Earth	0	299.792.458,49	0,00	0	299.792.458,49	0,00	6,6726000000E-11
Space station h=380 km	-24.936	299.792.458,58	0,09	-7,82826E-11	299.792.458,60	0,11	6,6725999932E-11
Satellite h=20.200 km	38.556	299.792.458,36	-0,13	-1,05811E-09	299.792.458,67	0,18	6,6725999948E-11
Moon	56.007	299.792.458,30	-0,19	-1,30654E-09	299.792.458,69	0,20	6,6725999955E-11
Orbit around the Sun h=2.000.000km	-69.650.115	299.792.700,16	241,67	1,07438E-06	299.792.378,07	-80,42	6,6725981020E-11
Mercury	-1.974.340	299.792.465,34	6,85	3,00698E-08	299.792.456,33	-2,16	6,6725998451E-11
Venus	-484.218	299.792.460,17	1,68	7,40788E-09	299.792.457,95	-0,54	6,6725998879E-11
Mars	487.881	299.792.456,80	-1,69	-7,89836E-09	299.792.459,17	0,68	6,6725999088E-11

a) - The atomic radius varies with the potential of pure mass universal. Not vary with speed. An instrument that is carried to measure the speed of light will also do so. When considering the size it would have on Earth we get the apparent speed of light.

As we will see in the same article, the speed of light on Earth will also vary throughout time. It currently decrease around -0.009808 m/s by year, (-1 m/s in the next 102 years).

If we repeat the experiment in 1976 by the English group, Woods and Others, which concludes that the speed of light would be $299.792.458.8 \pm 0.2$ m / s, it appears that the value measured today, 31 years later, varying 0.32 m / s which are already outside the margin of error.

. We believe that, given the time elapsed; it should repeat the experiment under the same conditions of 1976.

The experience made in 1987 but should present a variation of 0.09 m / s would still be within the margin of error.

Universal gravitation variable.

$$G_{dv} = G_{co} \sqrt{\frac{\rho_{dv}}{\rho_{co}} \left(\frac{C^2 - V_c^2}{C^2 - V_d^2} \right)^3}$$

On the Moon, the measured value of G, is -6.3945 E-10 lower than measured on Earth. (E-11 6.672599989 / 6.672599993 E-11)

The annual G variation on the Earth:

$$G_t = G_o \sqrt{\frac{\rho_t}{\rho_o}}$$

Year	Variable gravitation (G)
1978	6,672600000E-11
2005	6,672599994E-11
2011	6,672599993E-11
2030	6,672599989E-11
2055	6,672599983E-11
2075	6,672599979E-11

Gravity

$$g_{dv} = g_{cv'} \left(\frac{t_c}{t_d}\right)^4 \left(\frac{t_{v'}}{t_v}\right)^2$$

$$g_{dv} = g_{cv'} \left(\frac{\rho_c}{\rho_d}\right)^2 \frac{C^2 - V_c'^2}{C^2 - V_d^2}$$

Annual variation of gravity:

$$g_t = g_o \left(\frac{\rho_o}{\rho_t}\right)^2$$

The value of gravity on Earth or anywhere will increase in proportion to the square of the age of the Universe.

Year	Gravity
1978	9,8100000000
2005	9,8100000347
2011	9,8100000424
2030	9,8100000668
2055	9,8100000989
2075	9,8100001245

P_t future weight of a mass on a planet.

$$P_t = P_o \left(\frac{\rho_o}{\rho_t}\right)^{\frac{5}{2}} \sqrt{\frac{C^2 - V_o'^2}{C^2 - V_t'^2}}$$

Evolution of future weight on Earth (annual):

$$P_t = P_o \left(\frac{\rho_o}{\rho_t}\right)^{\frac{5}{2}}$$

Year	Weight
1978	1,0000000000
2005	1,0000000044
2011	1,0000000054
2030	1,0000000085
2055	1,0000000126
2075	1,0000000159

Speed of light in free space (annual). Ensuring the same intensity of the relativistic photon

$$C_t = C_o \left(\frac{\rho_t}{\rho_o} \right)^{\frac{1}{2}}$$

Year	C (m/s)
1978	299.792.458,800
2005	299.792.458,535
2011	299.792.458,476
2030	299.792.458,290
2055	299.792.458,045
2075	299.792.457,849

Speed of light measured in the same apparatus (annual).

$$C_t = C_o \left(\frac{\rho_o}{\rho_t} \right)^{\frac{1}{2}}$$

Year	C
1978	299.792.458,800
2005	299.792.459,065
2011	299.792.459,124
2030	299.792.459,310
2055	299.792.459,555
2075	299.792.459,751

The annual curvature time of one day:

$$t_t = t_o \left(\frac{\rho_o}{\rho_t} \right)^{\frac{1}{2}}$$

Year	Time of one day 24 hours (nanoseconds)	Differential in relation to 1978
1978	86.400.000.000.000	0
2005	86.400.000.076.320	76.320
2011	86.400.000.093.280	93.280
2030	86.400.000.146.986	146.986
2055	86.400.000.217.653	217.653
2075	86.400.000.274.186	274.186

The meters, depending on the speed of light (annual).

The meter corresponds to the space traveled by light in the time interval 3.335640952 E-09 seconds.

$$C_{\text{vacuum}} = C_0 \left(\frac{\rho_t}{\rho_0} \right)^{\frac{1}{2}}$$

$$C_{\text{apparatus}} = C_0 \left(\frac{\rho_0}{\rho_t} \right)^{\frac{1}{2}}$$

Year	Velocity of light m/s	Bend of time (in vacuum)	Contraction in atomic radius (in one apparatus)
1978	299.792.458,80	1,000000003E+00	1,000000003
2005	299.792.458,54	1,000000002E+00	1,000000004
2010	299.792.458,49	1,000000002E+00	1,000000004
2030	299.792.458,29	1,000000001E+00	1,000000004
2055	299.792.458,04	1,000000000E+00	1,000000005
2075	299.792.457,85	9,999999995E-01	1,000000006

The annual removal in planetariums systems.

	Distance (m)	Apparent		Real	
		Annual Removal (m)	Velocity removal (m/s)	Annual Removal (m)	Velocity removal (m/s)
Moon-Earth	384.467.001	0,038		0,0251564	-
Earth-Sun	1,50E+11	14,22		9,79	-
Sun-Centre of Milk Way	2,84E+20	-	-	1,85710E+10	588,48
Diameter Milk Way	9,37E+20	-	-	6,12843E+10	1.941,98
Hubble Law (m/s *Mpc)	3,09E+22	-	-	2,01902E+12	63.978,84
Universe	1,45E+26 15283069185,35 al	9,46070E+15al	299.792.458,80	9,46073E+15al	299.792.458,51

Real - Considering the curvature of the time.

Planets in solar system

Increased of radius and period translation

Planet	Radius (m)	Orbit radius (m)	Translation velocity (m/s)	Translation period (anos)	Real removal from Sun (m)	Radius contraction Sun + Planet (m)	Superficial removal Sun/Planet (m)	Delay time translation (Seg.)	Annual average removal from Sun (m)
Earth	6.378.136	1,49600E+11	29.785,85	1	9,79	0,05	9,83	0,003097	9,79
Mars	3.370.000	2,28000E+11	24.127,28	1,88	28,07	0,16	28,23	0,010965	14,93
Jupiter	69.900.000	7,78000E+11	13.061,29	11,86	603,73	7,05	610,78	0,435639	50,90
Saturn	58.500.000	1,43000E+12	9.634,03	29,55	2.765,23	43,12	2.808,35	2,705180	93,58
Neptune	22.100.000	4,50000E+12	5.430,87	164,98	48.576,13	1.278,84	49.854,98	84,299621	294,44

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Rebello Fernandes