

Magnetic vector potential

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The wavefunction is the magnetic vector potential field.

$$i \frac{dA}{dt} = -2A_0 \frac{d^2 A}{dx^2} \dots\dots\dots; \dots\dots\dots A_0 = \frac{xc}{4\pi}$$

$$A = A_0 \cdot \exp i(kx - wt)$$

$$\frac{dA}{dt} = A_0 \cdot \exp i(kx - wt) (-iw)$$

$$\frac{d^2 A}{dx^2} = A_0 \cdot \exp i(kx - wt) (-k^2)$$

$$\frac{dA}{dt} = E \dots\dots\dots; \dots\dots\dots \frac{dA}{dx} = B$$

$$A_{0e} = \frac{x_e \cdot c}{4\pi} = 5.78838 \times 10^{-5} \text{ LV}$$

$$x = ct \dots\dots\dots \Leftrightarrow \dots\dots\dots dx^2 = c^2 dt^2$$

$$\frac{d^2 A}{dt^2} + \frac{ic^2}{2A_0} \frac{dA}{dt} = 0$$

$$\Leftrightarrow \dots\dots\dots A(t) = \frac{2A_0 C_1}{ic^2} \cdot \exp(-ic^2 t / 2A_0) + C_2$$

$$t = 0 \dots\dots\dots \Leftrightarrow \dots\dots\dots A(t) = A_0$$

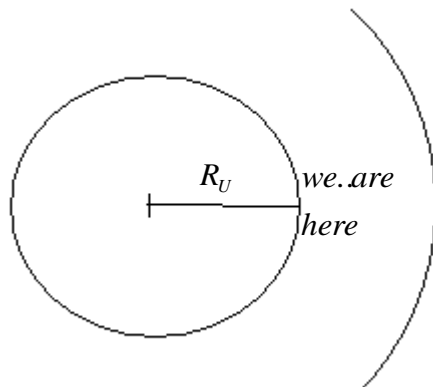
$$A(t) = A_0 \cdot \exp(-ic^2 t / 2A_0)$$

The modern condom universe:



According to modern physics we live in a condom universe that is expanding.

True rotating universe:



$$R_U = \frac{c}{H_0} = 1.36 \times 10^{26} m \dots \dots \dots ; \dots \dots \dots H_0 = 2.2 \times 10^{-18} Hz$$

Entropy doesn't exist.

An energy over a temperature is the Boltzmann constant, not a variable called entropy.

Entropy is always a constant with units square meter or an area, like in black holes. But the true area is the Boltzmann constant all the time.

If entropy was a variable we could change the temperature of a liquid by changing its external area, what is impossible as we have tested.

Time is a human invention. What exists in nature is the period of a wave or any cyclic event. To make time we must count periods.

$$t = nt_0 \dots \dots \dots , \dots \dots \dots n = \frac{t}{t_0} = I_t = time..current$$

The clocks give numbers and angles with no units, they don't give time.

The clocks give time current.

The period of an event doesn't pass or flow.

The period of a clock changes with several things: temperature, humidity, speed and acceleration. But we can always make a clock with absolute time.

Spacetime is a stupidity.

Is our invented time that goes from the past to the future.
We must live always in the present.

We think that our sun will be a black hole. Life will continue to exist on earth but it will has spirits living at it. We are immortals.

Torque-induced precession and pilot wave frequency:

The longitudinal waves of the particles are generated bt the torque-induced precession of the rotation of the particles or waves:

$$f_L f_R = f_M^2 = \frac{c^2}{S} = 4.7 \times 10^{50} \text{ Hz}^2$$

For the electron:

$$f_R = f_e = \frac{c}{x_e} = 1.2356 \times 10^{20} \text{ Hz} - \text{Compton..frequency}$$

Longitudinal pilot wave frequency:

$$f_L = \frac{cx_e}{S} = 3.8 \times 10^{30} \text{ Hz}$$

Speed of the pilot wave:

$$w_L = \sqrt{S} f_L = 5.26 \times 10^{13} \text{ m/s} = 175000 \times c$$

$$f_L f_R = \frac{g}{4\pi^2 R} = \frac{c^2}{S}$$

$$R = \frac{\sqrt{S}}{2\pi} = 2.2 \times 10^{-18} \text{ m} \dots \Leftrightarrow \dots g = \frac{2\pi \cdot c^2}{\sqrt{S}} = 4.1 \times 10^{34} \text{ ms}^{-2}$$

$$H_0 = 2.2 \times 10^{-18} \text{ Hz} \text{ ?????}$$

The longitudinal pilot waves have a constant wavelength:

$$x = \sqrt{S} = 1.38 \times 10^{-17} \text{ m}$$

Accelerating expansion

Our universe is not expanding, it's rotating locally at light speed.

The redshifts that we observe are due to the transversal Doppler effect discovered by Einstein.

$$v = H_0 D \dots \dots \dots , \dots \dots \dots H_0 = 2.2 \times 10^{-18} \text{ Hz}$$

$$c = H_0 R_U \dots \dots \dots \Leftrightarrow \dots \dots \dots R_U = 1.36 \times 10^{26} \text{ m}$$

$$D = ct \dots \dots \dots \Leftrightarrow \dots \dots \dots v = H_0 ct \dots \dots \dots \Leftrightarrow \dots \dots \dots g_U = \frac{v}{t} = H_0 c = 6.6 \times 10^{-10} \text{ ms}^{-2}$$

$$g_U = \frac{GM_U}{R_U^2} = 6.6 \times 10^{-10} \text{ ms}^{-2}$$

$$c^2 = \frac{GM_U}{R_U} \dots \dots \dots \Leftrightarrow \dots \dots \dots M_U = \frac{c^3}{GH_0} = 1.83 \times 10^{53} \text{ kg}$$

$$M_U = \frac{g_U R_U^2}{G} = 1.83 \times 10^{53} \text{ kg} \dots \dots \dots ; \dots \dots \dots \rho_U = \frac{3H_0^2}{4\pi G} = 1.73 \times 10^{-26} \text{ kg/m}^3$$

Our universe is not expanding. It's rotating.

If the physicists have discovered that the universe is accelerating, why they can't tell us what is the value of that acceleration. It's secret?

If the speed of the galaxies is increasing with the distance or time is evident that there's an acceleration, but that acceleration is normal from the Hubble law.

Dark energy means that the Einstein's field equations are totally wrong, there's no dark energy. Special and general relativities are wrong. Spacetime doesn't exist.

Some wrong Nobel prizes in physics:

2013 – Higgs boson – The mass is an electric dipole moment. The standard model is all wrong, particles do have mass.

2011 – Accelerating expansion – The universe is rotating.

2008 – Spontaneous broken symmetry – Those symmetries don't exist in nature. All symmetries are broken because they don't exist.

2004 – Asymptotic freedom – Strong force theories are all wrong. Strong force as all other forces is electric. Vacuons are the only particles with no mass so they can't be detected.

The Higgs boson is a graviton. The Higgs doesn't exist. The usual measurements of the electric dipole moments are wrong because the moment has not the same direction as the spin. So the measurements always give the zero value.

Prandtl-Glauert singularity

Physicists had not learned nothing with the sound barrier.

The old problem of passing the sound speed barrier is totally the same as with light: some values become infinite, but in the nature there are no infinities.

Singularities in any theory are errors.

Pressure:

$$P_s = \frac{P_{s0}}{\sqrt{1 - v^2 / c^2}} \dots\dots\dots c - \text{sound speed}$$

The flying saucers that visit the earth are the proof that it's possible to pass the light speed barrier.

To be exact we have only proved that electrically charged particles alone can't overtake light speed.

We don't know nothing about neutral matter.

There are many proofs that a great number of things can travel faster than light.

The meaning of life

We are spirits that parasitizes human animals. Why?

Because we must rationalize the intuitive knowledge. All existence, alive or not, has an intuitive knowledge. Our task is to translate the intuitive knowledge to rational knowledge to stay alive.

Our job, in this world, is living forever and to reach that we must rationalize our intuitive mind. The existence is intelligent. We are the existence studying itself to become immortal.

Superconductors

$$\frac{Gm}{R} \geq c^2 \dots\dots\dots; \dots\dots\dots G = \frac{q_e^2}{4\pi \cdot \alpha \cdot \epsilon_0 \cdot m_e^2}$$

$$\frac{G^3 m^3}{R^3} \geq c^6 \dots\dots\dots; \dots\dots\dots R^3 = \frac{3m}{4\pi \cdot \rho}$$

$$m\sqrt{\rho} \geq \frac{\sqrt{3}c^3}{\sqrt{4\pi}} \frac{m_e^3 (4\pi \cdot \alpha \cdot \epsilon_0)^{3/2}}{q_e^3}$$

Superconductor condition:

$$m\sqrt{\rho} \geq 1.77 \times 10^{-27} \approx (3\pi \cdot q_e)^{3/2}; \quad m - \text{mass}; \quad \rho - \text{density}$$

Minimum normal resistivity at 300K

$$R_{YMIN} = \frac{1}{c} = 3.34 \times 10^{-9} \Omega m$$

Minimum superconductor resistivity

$$R_{YSC} = \frac{q_e S}{h} = 4.6 \times 10^{-20} \Omega m$$

A zero resistivity is impossible.

$$YBCO \text{ --- } m = 1.1 \times 10^{-24} \text{ kg}; \dots \rho = 6300 \text{ kg} / m^3 \dots; \dots T_c = 93$$

$$MgB_2 \text{ --- } \dots 7.6 \times 10^{-26} \dots 2570 \dots 39$$

$$La \dots 139 \dots 6162 \dots 4.9$$

$$Ta \dots 181 \dots 16690 \dots 4.5$$

$$Pb \dots 207.2 \dots 11340 \dots 7.2$$

$$La \text{ --- } \dots m\sqrt{\rho} = 1.8 \times 10^{-23} \dots \geq \dots 1.77 \times 10^{-27}$$

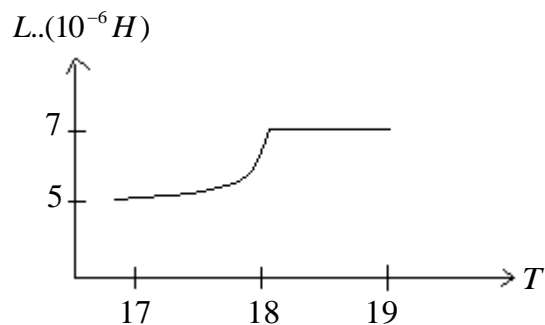
$$Ta \text{ --- } \dots = 4 \times 10^{-23}$$

$$Pb \text{ --- } \dots = 3.7 \times 10^{-23}$$

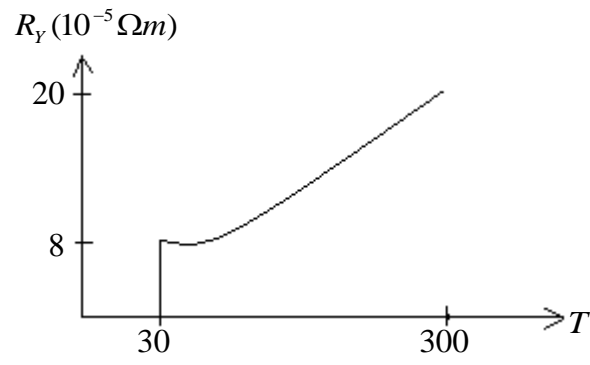
$$MgB_2 \text{ --- } \dots = 4 \times 10^{-24}$$

$$YBCO \text{ --- } \dots = 9 \times 10^{-23}$$

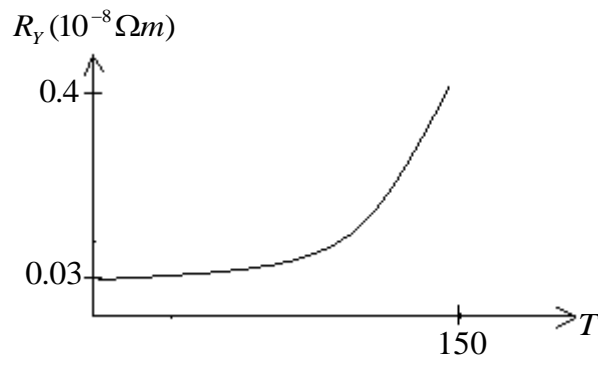
Niobium-tin inductance measurement:



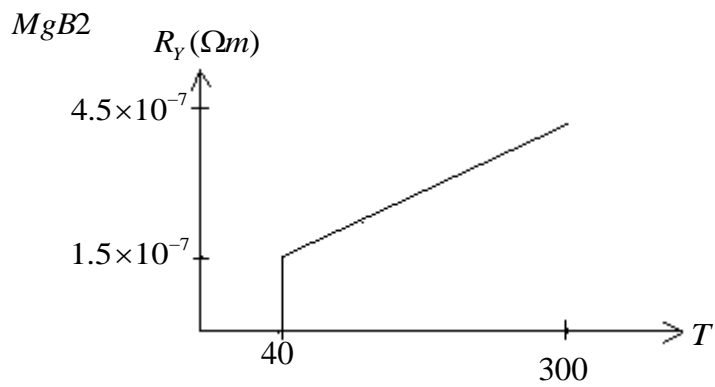
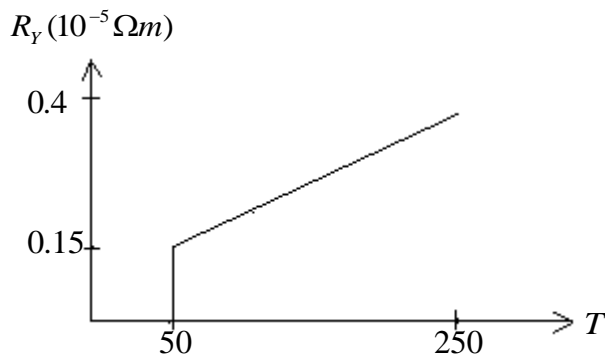
LaBaCuO4



Cu --- $1.7 \times 10^{-8} \Omega m$ --- $300K$



CaLaFe2(AsP)2



Almost all material can be a superconductor.

To exist superconductivity the mass of the molecule times the square root of the density must be superior to a certain constant:

$$m\sqrt{\rho} \geq 1.77 \times 10^{-27}$$

$$m\sqrt{\rho} \approx 4 \times 10^{-23} \dots\dots; \dots\dots T_c \approx 30S$$

To exist superconductivity the orbital speed of the molecule must be superior to light speed so, the molecules must be black holes for electrons.

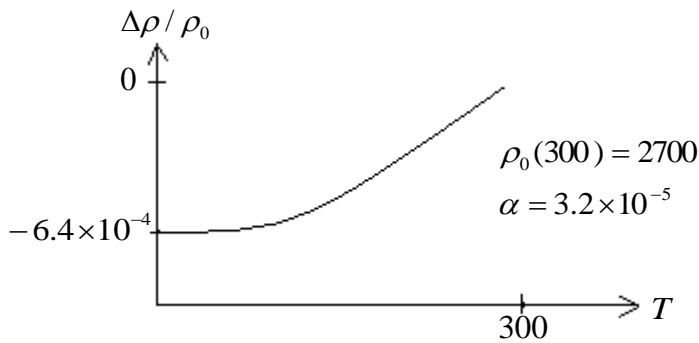
Is evident the difficulty of getting this combination of mass and density because, when we increase the mass the density tends to decrease and this is the reason why the molecules must be very complexes to be massive and with great density.

The mass of a material is almost a constant but the density can increase with the increasing pressure and decreasing temperature:

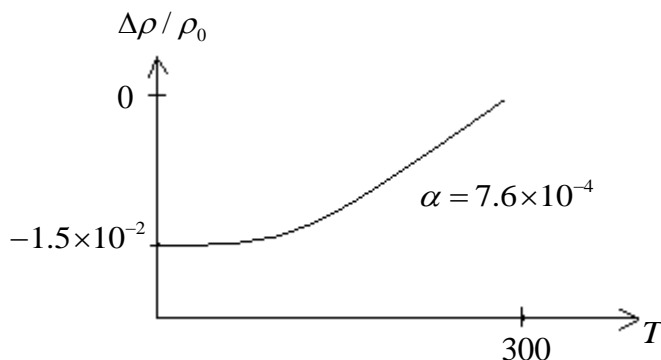
Compressibility and thermal contraction

$$\frac{\Delta\rho}{\rho_0} = -\alpha\Delta T \dots\dots\dots \rho = \rho_0(1 - \alpha\Delta T)$$

Aluminium – Thermal contraction



Epoxi



Compressibility:

$$\rho = \frac{\rho_0}{1 - \Delta P / E} \dots\dots; \dots\dots E = \text{elasticity}$$

Aluminium



$$\rho_0 = 2700 \text{ kg} / \text{m}^3 \dots\dots; \dots\dots E = 7.6 \times 10^{10} \text{ Pa}$$

$$\rho = \rho_0 \frac{1 - \alpha \cdot \Delta T}{1 - \Delta P / E}$$

$$m_0 \sqrt{\rho_0} \frac{\sqrt{1 - \alpha \cdot \Delta T}}{\sqrt{1 - \Delta P / E}} \geq 1.77 \times 10^{-27}$$

The spirits consciousness is intuitive. But the existence needs a rational consciousness.

The spirits (we) need bodies to rationalize the intuitive knowledge.

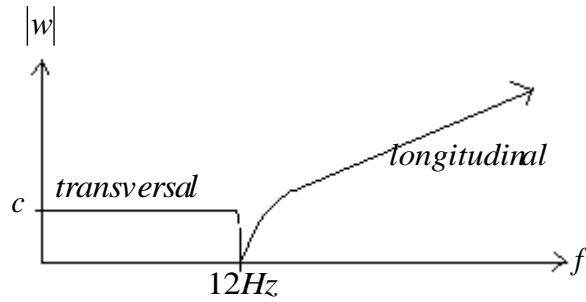
Seismic waves in granite or vacuum:

Speed:

$$w = \sqrt{c^2 - S f^2}$$

S-wave – Transversal -- $w_s = c = 3 \times 10^3 \text{ m} / \text{s}$

P-wave – Longitudinal -- $w_p = \sqrt{S} f = 5 \times 10^3 \text{ m} / \text{s}$



$$\sqrt{S} = 250m \dots \dots \dots ; \dots \dots \dots f_M = \frac{c}{\sqrt{S}} = 12Hz \dots \dots \Leftrightarrow \dots \dots w = 0$$

$$w_s = \sqrt{\frac{\mu}{\rho}} \dots ; \dots \mu - \text{shear modulus}; \dots \rho - \text{density}$$

The vacuum is a supersolid.
Shear modulus of the vacuum:

$$\mu_v = \frac{c^2}{\mu_0} = 7.15 \times 10^{22} Pa$$

$$w_p = \sqrt{\frac{k + 4/3\mu}{\rho}} \dots ; \dots k - \text{bulk modulus}$$

Granite:

$$k = 3.5 \times 10^{10} Pa \dots \dots ; \dots \mu = 2.4 \times 10^{10} Pa$$

Vacuum:

$$k_v = 1.9 \times 10^{23} Pa$$

$$k_v = -\mu_0 \frac{dP_v}{d\mu_0} = 1.9 \times 10^{23} Pa \dots ; \dots \mu_0 - \text{vacuum permeability}$$

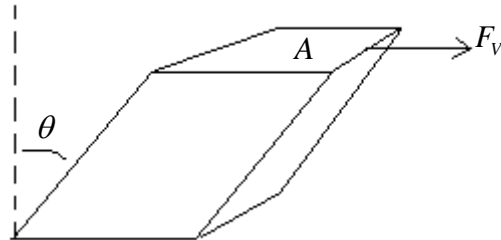
The inverse of the permeability is a density.

Vacuum pressure:

$$P_v = -1.9 \times 10^{23} \log \mu_0 = +2.6 \times 10^{24} Pa$$

Shear modulus

$$\mu_V = \frac{F_V}{A} \operatorname{ctg} \theta \dots \dots \dots A = \varepsilon_0^2 \dots \text{or} \dots k_B'$$



$$\frac{F_V}{k_B'} \operatorname{ctg} \theta = 7.15 \times 10^{22} \text{ Pa} \dots \dots \dots \frac{F_V}{k_B'} = P_V = 2.6 \times 10^{24} \text{ Pa}$$

$$\Leftrightarrow \dots \dots F_V = 35.87 \text{ N} = \frac{q_e^2}{4\pi\varepsilon_0 R^2} \dots \dots \Leftrightarrow \dots \dots R = 2.54 \times 10^{-15} \text{ m}$$

$$x = 2\pi \cdot R = 1.6 \times 10^{-14} \text{ m} \dots \dots \text{and} \dots \dots x_0 = 4 \times 10^{-15} \text{ m}$$

$$x = 4x_0$$

$$\operatorname{tg} \theta = \frac{F_V}{k_B' \cdot 7.15 \times 10^{22}} \dots \dots \Leftrightarrow \dots \dots \operatorname{tg} \theta = 36.3664 \dots \dots \Leftrightarrow \dots \dots \theta = 88.425$$

We are all aliens.

Human specie on the earth is not natural.

The earth had been colonized by aliens.

The religious cosmogenesis are not the beginning of the universe but the origin at earth that is not natural.

We are spirits inside an animal body.

Before knowing physics I already know intuitively everything I had discovered.

My intuitive knowledge had guided me all the time, but we need to do a lot of work to translate the intuitive knowledge to rational knowledge.

The existence is made of two faces, united by the matter: the transversal and the longitudinal waves or worlds. Also humans have two faces: the spirit and the animal body – both are very important.

There are two faces of intelligence: intuitive and rational.

The spirit is immortal and is very important that the body dies to free the spirit.

Our body is programmed to die after a certain period of time.

Gods are the aliens that had colonized the earth. Many laws of the gods are wrong and we must use our intelligence to fix those wrong laws. We also are going to become gods, but it will take a lot of time because we are now very primitive. We must evolve much more than this.

Some religions more intelligent has another type of god: the only one god that represents all the universal intelligence but it is not a person, it is everything that exists.

But we don't need any gods. We must become our own gods.

Our souls are what we are.

We have two half brains like there are two worlds.

Our two brains are: one intuitive and one rational – one supports the spirit knowledge and the other supports the rational body.

All living beings have souls. All living organisms have spirits and a matter body.

Humans are only one more specimen of the living organisms.

Mathematical logic is body.

Feelings are spirits.

All the existence is a living organism with intelligence.

All the existence is entangled all the time with longitudinal waves.

Existence is present in any place with no delay.

All intelligence is present here and now.

Total knowledge is possible.

The rational mind is body.

The intuitive mind is spirit.

All the existence has consciousness.

Rocks know very well all the laws of physics.

Gods can't violate the laws of physics. Death means life.

Mass of a quantized black hole

$$c^2 = \frac{2GM}{R} \dots\dots \text{and} \dots\dots R = G^{-1/3} \dots\dots \Leftrightarrow \dots\dots M = \frac{c^2}{2G^{4/3}} = 1.66 \times 10^{30} \text{ kg}$$

Values of the sun:

$$M = 2 \times 10^{30} \text{ kg} \dots\dots; \dots\dots R = 7 \times 10^8 \text{ m} \dots\dots; \dots\dots G^{-1/3} = 2.465 \times 10^3 \text{ m}$$

Pressure at the center of a star:

$$P = \frac{GM^2}{4\pi.R^4}$$

Energy density of the neutron:

$$\rho_E = \frac{m_N c^2 6\pi^2}{x_N^3} = 3.9 \times 10^{36} \text{ Pa}$$

Pressure at the center of a quantized black hole:

$$P = \frac{Gc^4}{16\pi} = 1.1 \times 10^{22} \text{ Pa}$$

Mass of a minimum black hole:

$$\frac{GM^2}{4\pi R^4} > 3.9 \times 10^{36} \dots \text{and} \dots R^4 = \frac{16G^4 M^4}{c^8}$$

$$\frac{c^8}{64\pi G^3 M^2} > 3.9 \times 10^{36} \dots \Leftrightarrow \dots M < 5.3 \times 10^{29} \text{ kg}$$

$$\frac{1.66 \times 10^{30}}{5.3 \times 10^{29}} = \pi \quad ; \quad \frac{2 \times 10^{30}}{1.66 \times 10^{30}} = \frac{6}{5}$$

Switched mode power supply

Power with the frequency

$$q_e V_E = hf \dots; \dots nq_e V_E = nhf \dots; \dots Q_e = nq_e$$

q_e – electron..ch arg e; .. V_E – voltage; .. h – Planck..constant; .. f – frequency

$$Q_e V_E = nhf \dots; \dots Q_e = \frac{I_E}{f} \dots; \dots I_E – current$$

$$I_E V_E = nhf^2 \dots \Leftrightarrow \dots P_W = nhf^2$$

Some known data:

$$P_W = 25W \dots; \dots f = 3 \times 10^5 \text{ Hz} \dots \Leftrightarrow \dots n = 4.2 \times 10^{23} \approx 6.022 \times 10^{23}$$

$$P_W = A_V hf^2 \dots \Leftrightarrow \dots P_W = 4 \times 10^{-10} f^2$$

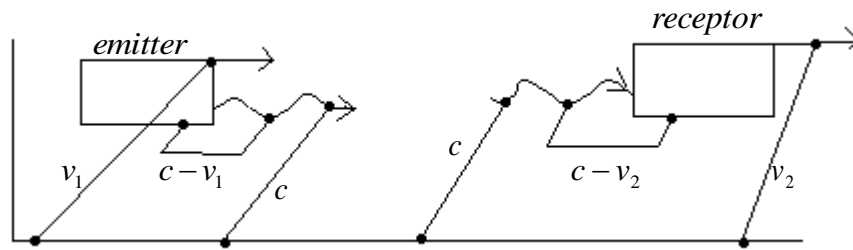
The correct way of representing speeds:

There's nothing special about light.

Transversal light waves have the same behavior as transversal waves at water surface.

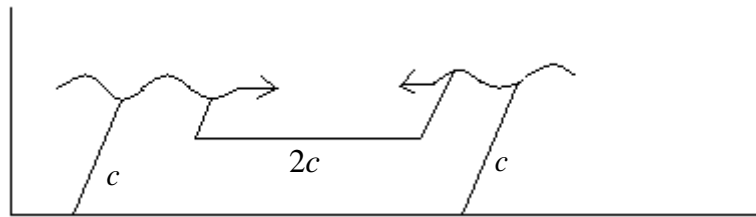
Neither waves sum it speed with the speed of the emitter.

To correctly represent a speed we must represent the speed vector and the reference frame:



The light has not a speed $c+v$ as all other waves.

Any object has an infinite number of speeds, one speed for each frame.



There's a maximum relative speed $2c$. The usual formula of speeds composition doesn't give the relative speed. It gives the speed of propagation of the light in a moving medium like water or glass. As we can test the formula gives the speed of the light in moving water from the Fizeau experiment:

$$w = c^2 \frac{w_0 + v}{c^2 + vw_0}$$

About spirits and bodies:

The spirits (we) have sex: males and females.

The homosexual girls have male spirits.

So, male spirits are attracted by female bodies.

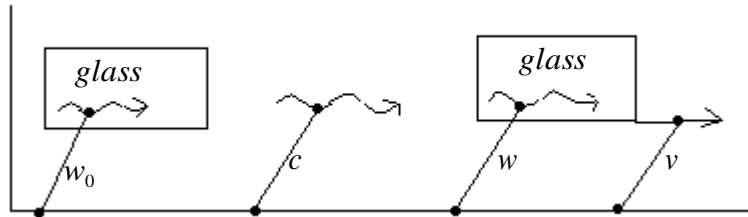
Two homosexual girls are two males wanting two female bodies.

So, spirits want bodies, not spirits.

They don't mind to have a spirit with the same sex.

Fizeau formula:

$$w = c^2 \frac{w_0 + v}{c^2 + vw_0}$$



Why the speed in the moving glass is not only $w = w_0 + v$.

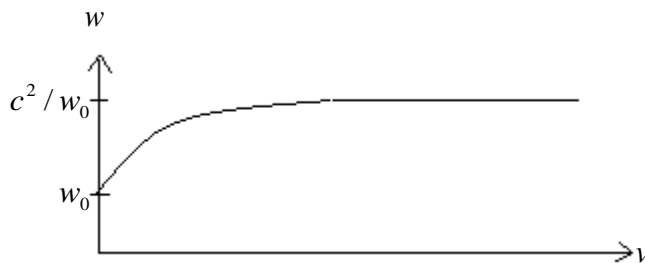
Because there's a Doppler shift that changes the frequency of the light so it changes the speed:

$$w = \frac{w_0 + v}{n} \quad \text{And} \quad n = 1 + vw_0/c^2 \approx 1 + v/c$$

Doppler effect:

$$f = f_0(1 + v/c) \dots \Leftrightarrow \dots w = \frac{w_0 + v}{f/f_0}$$

$$\Delta f / f_0 = \frac{vw_0}{c^2}$$



$$c^2/w_0 > c$$

$$A_V = 6.022 \times 10^{23} \quad ; \quad H = A_V h = 4 \times 10^{-10} \text{ Js}$$

$$M = \frac{Q_e k_B'}{x_P} = \frac{A_V q_e k_B'}{x_P} = 1 \text{ g} = m_P A_V$$

A_V – Avogadro constant; h – Planck constant; H – macroscopic Planck constant;
 M – mass; Q_e – electric charge; q_e – electron charge; k_B' – corrected Boltzmann constant;
 x_P – proton wavelength; m_P – proton mass.

Earth electric and magnetic fields:

$$E = 150 \text{ V/m} \dots\dots\dots; \dots\dots\dots B = 45 \mu\text{T}$$

$$E = \frac{Q_e}{4\pi R^2 \epsilon} \dots\dots\dots; \dots\dots\dots B = \frac{\mu Q_e f}{2R} \quad f = \frac{1}{24h}$$

$$\epsilon \mu = \frac{B}{f E 2\pi R} = 6.446 \times 10^{-10} \text{ s}^2 \text{ m}^{-2}$$

$$\mu \approx \mu_0 \dots\dots\dots \Leftrightarrow \dots\dots\dots \epsilon = 5.13 \times 10^{-4} \text{ m}$$

$$Q_e = 4 \times 10^{13} \text{ C}$$

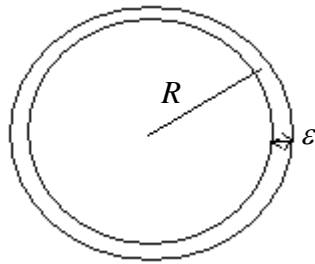
Earth capacitance and inductance:

$$C = \epsilon R = 3.3 \times 10^3 \text{ Farad} \dots\dots\dots; \dots\dots\dots L = \mu_0 R = 8.04 \text{ Henry}$$

$$f_x = \frac{1}{2\pi \sqrt{LC}} = \frac{1}{2\pi R \sqrt{\epsilon \mu_0}} = 9.8 \times 10^{-4} \text{ Hz}$$

The permittivity is a length.

$$\text{Volume} = 4\pi R^2 \epsilon \quad \text{Volume that contains the charge.}$$



About life – physics and philosophy

How can humans discovered the properties of the medicinal plants?

How can they avoid the plants with poison?

Because, some persons have that intuitive knowledge.

All persons are owners of a particular intuitive knowledge.

All persons have a natural job.

It's an error looking for jobs with good salaries that are not the natural job.

Our natural jobs are our reason for living with happiness.

Natural jobs have natural salaries and salaries are not only money.

A lot of money with little happiness is an error.

Nowadays the idiots are all doctors. Universities are making idiots.

Our natural jobs are based on our intuitive knowledge.

Working is rationalize the intuitive knowledge.

Nowadays all persons want to be doctors and all idiots can reach that.

We must study to learn, not to get a job to win lots of money.

Quantum entanglement doesn't exist.

But, everything is entangled with everything.

The rocks are entangled with the plants, the plants are entangled with the animals and the animals are entangled with the waves.

The existence is like a brain with two halves.

How plants know that the bees like sugar?

The existence does not play dice.

Existence is intelligence.

The meaning of life is work and work is rationalize the intuitive knowledge.

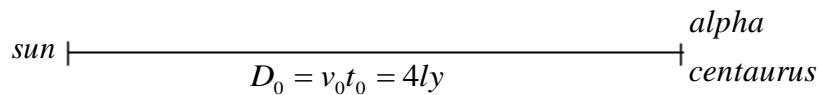
Happiness is work, working in the natural job.

Philosophy is borne again.

The occult societies occult they ignorance. In reality they have nothing to teach us.

The calculation that no one have made

(relativity theory is totally wrong)



$$D = D_0 \sqrt{1 - v^2 / c^2} \dots\dots\dots t = \frac{t_0}{\sqrt{1 - v^2 / c^2}}$$

$$v = \frac{D}{t} = \frac{D_0}{t_0} (1 - v^2 / c^2) \dots\dots \Leftrightarrow \dots\dots v = v_0 (1 - v^2 / c^2)$$

$$\Leftrightarrow \dots\dots v_0 = \frac{vc^2}{c^2 - v^2}$$

When $v \rightarrow c \dots\dots \Leftrightarrow \dots\dots v_0 \rightarrow \infty$

When the relativistic speed goes near light speed the normal speed goes to infinite.
If the relativity theory says that the speed is light speed, the normal speed is infinite.

Going to Alpha-centaurus:

$$v = 0.99c \dots\dots \Leftrightarrow \dots\dots v_0 = 49.75c \dots\dots \text{and} \dots\dots D_0 = 4ly$$

$$\Leftrightarrow \dots\dots t_0 = 29.4days$$

If space and time are relative, the speed is relative also. We can go any where without overtake light speed.

But is evidente that all this is totally wrong. Spacetime doesn't exist. The Lorentz equations give the Doppler effect for transversal waves. Space is wavelength and time is period of an electromagnetic wave. The Lorentz equations when used in the correct way give correct results, it's why it seems that relativity theory works fine.

Superconductors:

Any material can be a superconductor if:

$$m\sqrt{\rho} \geq k$$

The mass of the molecule times the square root of the density must be higher than a certain constant.

Volume with temperature:

$$V = V_0(1 + \alpha\Delta T) = V_0\left(1 + \frac{T - T_0}{T_0}\right) = V_0 \frac{T}{T_0}$$

Density:

$$\rho = \frac{m}{V} = \frac{m}{V_0} \frac{T_0}{T} = \rho_0 \frac{T_0}{T}$$

$$\Leftrightarrow \dots\dots\dots \sqrt{\rho} = \sqrt{\rho_0} \sqrt{\frac{T_0}{T}}$$

Density with pressure:

$$PV = nk_B T \dots\dots\dots \Leftrightarrow \dots\dots\dots PV = P_0 V_0 \dots\dots\dots \Leftrightarrow \dots\dots\dots V = V_0 \frac{P_0}{P}$$

$$\sqrt{\rho} = \sqrt{\rho_0} \sqrt{\frac{P}{P_0}}$$

Total effect:

$$\sqrt{\rho} = \sqrt{\rho_0} \sqrt{\frac{T_0}{T}} \sqrt{\frac{P}{P_0}}$$

$$m_0 \sqrt{\rho_0} \sqrt{\frac{T_0 P}{T P_0}} \geq k$$

Unified system of units

There are only two fundamental units: distance and velocity.

This system has been tested with all knowne formulas and it's perfect.

$$\text{Distance} = L \quad ; \quad \text{Velocity} = V$$

	L-1	L0	L	L2	L3	L4	L5
V-1	Thermal Resistance; Electric Resistance	Resistivity; Electron Mobility	Time; Inverse Frequency				
V0	Ionizing Radiation; Curvature	Number; Time Current	Distance; Permittivity; Capacitivity	Surface; Capacitance; Entropy; Boltzmann constant	Volume; Inverse Gravitational Constant		
V	Frequency; Vorticity	Speed; Magnetic Field	Magnetic Potential; Circulation; Conductance	Magnetic Charge; Magnetic Flux	True Magnetic Dipole Moment		
V2	Acceleration; Magnetic Current Density	Electric Field; Inverse Inductance; Gravitational Potential	Magnetic Current; Electric Voltage; Inverse Permeability; Density; Electric Displacement Field	Electric Flux; Inverse Specific Heat Capacity	Electric Charge	Mass; Electric Dipole Moment	
V3		Electric Current Density; Potential Vorticity	Magnetic Field Strength; Magnetization	Magnetic Voltage; Electric Current; Magnetomotive Force; Viscosity	Mass Current	Momentum; False Magnetic Dipole Moment	Angular Momentum; Planck Constant
V4		Magnetic Tension	Pressure; Energy Density	Temperature; Surface Tension	Force	Energy; Torque	
V5	Luminance	Spectral Irradiance	Intensity; Irradiance		Power; Candela		