

Re: "How Does Light "Know" How Fast to Travel?"

Source: <http://sci.tech--archive.net/Archive/sci.physics.relativity/2006-03/msg00798.html>

- *From:* "Hexenmeister" <vanquish@xxxxxxxxxxxx>
 - *Date:* Sat, 11 Mar 2006 17:50:45 GMT
-

<guskz@xxxxxxxxxxxx> wrote in message
news:1142094395.073167.69410@xx

|
| Hexenmeister wrote:
| > <guskz@xxxxxxxxxxxx> wrote in message
| > news:1142080928.056274.322800@xx
| > >
| > > Hexenmeister wrote:
| > > <guskz@xxxxxxxxxxxx> wrote in message
| > > news:1141668263.475074.323630@xx
| > > >
| > > > Because it's forced to obey Maxwell equation and therefore the
| > > > permeability (travelability) of the space medium.
| > > >
| > > > What medium?
| > > >
| > > > That point is 100% clear to me and only because of that certainty my
| > > > reply would be that you would not reply to me with this question
| > > > (hoping you dont become defensive) if you researched the full meaning
| > > > of permeability and permeability.
| > > >
| > > > Perhaps you mean permeability and permittivity.
| > > >
| You are sharp indeed!

No more than the average proofreader.

|
| > If I drop a cannonball in the ocean it doesn't fall as fast to the
| > ocean floor as it would if I dropped it a similar height in air.
| > We call the water and air "media" and it is this medium that controls
| > the descent to the ocean floor.
| >
| Yah but i think you ment vice-versa

I meAnt exactly what I said.

|

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| media carries the info (photons carry info)

| the medium is the air and water and the cannonball is the media

| > If the water or air wasn't there, the iron weight wouldn't fall at all,

| > it would sit there, floating in space because it doesn't have

| > any air or water to fall in.

| you wouldn't have any dimensions to localize the cannonball's location

| if you wish to get technical about it.

I wish to get technical about it and yes I would, I know how to use
a ruler, a knotted length of string, a theodolite and a stopwatch.

| >

| > >

| > > The basic meaning of permeability and permittivity means travel

| > > restriction otherwise both of these values would be ZERO and the speed

| > > of light would be infinite. $c^2 = 1/(\text{permeability} * \text{permittivity})$

| >

| > What makes you think that because you can measure the acceleration of

| > falling cannonballs in air that cannonballs are a wave in air (sound)?

| firstly the cannonball has mass where as photons do not,

Prove a cannonball has mass and a photon does not.

Tell me how to go about measuring it, and while you at it,
how to go about measuring the mass of this "Eather" you've
heard of.

| thus in this

| instance the cannonball would be a conglomeration of inter..active

| photons.

| secondly the cannonball does not generater the waves the waves are the

| pertuburations from the displaced air medium (versus the air's ability

| to dampen all waves....aftershock).

This cannonball on a spring has waves:

<http://www.kettering.edu/~drussell/Demos/SHO/damp.html>

See? Wave-particle duality.

What is the wavelength of the waves?

| > You'll be telling me next that cannonballs cannot exceed the speed of
sound,

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| > the frequency becomes infinite.

|

| I'll let you and the reader do the math.

Because you cannot.

I'll let the reader draw his conclusions on your capabilities.

| Let's just saying using Maxwell's equation the velocity of c in water
| would be related to that similar in space which is:

|

| $c^2 = 1 / (\text{permeability of the water} * \text{permittivity of the water})$

|

| for space: $c^2 = 1 / (\text{permeability of space} * \text{permittivity of space})$

Let's just say that the volume of a gas at zero degrees Kelvin in zero.

Let's just say that the speed of sound in space is infinite.

Let's just say bright green flying elephants lay eggs in black holes.

| As well as the direct linear interpolation that the higher the density
| (and/or porosity, opacity, etc...) of the medium then the higher the
| permeability and permittivity of the medium.

Space is not a medium. It is NOTHING. Light travels millions
of light years in nothing at all. No big deal, so do cannonballs.

| >

| >

| > > Because it's not zero

| >

| > Whoa! What isn't zero?

| >

| >

| > > therefore there is an invisible medium,

| >

| > Therefore cannonballs don't fall.

| >

| > > all

| > > medium have a permeability and permittivity (sometimes known as
| > > viscosity).

| >

| > Yeah, ok, all media slows down cannonballs.

| >

| >

| > > For there not to be a medium both permeability and

| > > permittivity would = zero.

| >

| > Sure, and the speed of cannonballs would be INDEPENDENT of the

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|> non-existent media.
|>
|>>
|>> Of all mediums, space has the lowest permittivity and permeability.
|>
|> Yep. ZERO.
|>
|>
|>> In
|>> fact
|>
|> Whenever I see a sentence beginning with "In fact" I know some
|> bullshit is about to follow.
|>
|>> the speed of light varies with the density (density almost similar
|>> in characteristic with viscosity, permittivity, permeability,
|>> porosity) of the medium it travels through.
|>
|> In fact I was right, some bullshit did follow. Michelson
|> proved what you've just said is bullshit.
|>
|>
|>>
|>> Because of Maxwells equation we are FORCE to prove there is no medium
|>> and thus no Eather.
|>
|> So at last we come to the answer to my question, "What medium?"
|>
|> Eather... I call that aether, it is as aetherial as ectoplasm. Maybe
|> you confuse 'seance' with 'science' as well.
|>
|>
|>>>
|>>> Logically if space was truly empty the travelability would be
infinite
|>>> (thus c would be infinite).
|>>>
|>>> Logically it is. Why depart from logic?
|>>>
|>>> Therefore
|>>>
|>>> No, no, no.
|>>> Logically, space IS truly empty and the "travelability" (whatever
that
|>>> is)
|>>> of a bullet or a spacecraft or a photon is undefined.
|>>
|>> If it truly was empty, the velocity of light would have no restriction
|>
|> It would have no restriction, I don't know what "restriction" means.
|>

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|>
|>> and therefore would be infinite,
|>
|> No, no... We are discussing "Logically".
|> Having no speed restriction does not mean speed is infinite
|> or cars on the Bonneville salt flats or in the Sahara Desert
|> would have infinite speed.
|> There is no "therefore" between "unrestricted"
|> and the "speed must be infinite".
|>
|> I'll leave it there, you said "logically" and then departed from logic.
|>
|> <http://www.androcles01.pwp.blueyonder.co.uk/Smart/Smart.htm>
|>
|> Androcles.
|>
|>
|>
|>
|> as well the rate of time would be
|>> infinite (or non existant...or perhaps static). Example(for time): How
|>> long did it take you to perform the task, well since the speed was
|>> infinite therefore I did it in zero time.
|>>
|>> -----
|>>
|>> Permittivity and permeability(the umbrella is Impermeable to rain) =
|>> porosity of the medium = semi- conductivity of the universe therefore
|>> suggesting not only computers are binaric (1 and 0, light and
darkness)
|>> but the universe and it's birth as well through forces known as
|>> conductivity and insulation (together form a semi-conductivity also
|>> known as a semi-travelability which Maxwell calls permittivity and
|>> permeability).
|>>
|>> A better visual would be the capability (permission = permittivity) of
|>> a BEAM of heat(light/photons) to travel through insulation. The linear
|>> resistance to it's travel is known as it permittivity and the
|>> perpendicular resistance determines the THICKNESS of the heat beam,
|>> which is determined by what is known as the permeability of the
|>> insulation. (Anything but 100% or 0% insulation is known as a
|>> semi-conductor).
|>>
|>>
|>> The secrets of Magneteria, same as insulation(or space) above water is
|>> also a medium and a boat or air bubble (metamorphore of a photon)
|>> travelling through this water medium (metamorphore of the Eather)
forms
|>> waves both in the direction of the boat (or air bubble) = permittivity
|>> and a different strength wave perpendicular to this travel direction =
|>> permeability and Magneteria.

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|>>
|>> Therefore when two different entities (mass) traveling through the
|>> water (eather) medium generates two separate waves (metamorphose of a
|>> photon) in the water (eather) and the synch/phase relationship
between
|>> the two sets of waves generates attracttion and repulsion depending if
|>> the waves cancel–out or become much more intensive.
|>>
|>>
|>>
|>>
|>>> There are no "therefores" to "would bes" (logically).
|>>> Androcles.
|>>>
|>>>
|>>>
|>>>
|>>> because space behaves like anyother medium such as water it
|>>>> may force the universe to adhere to an absolute space as reference
|>>>> frame...but then why is there time dilation.
|>>>>
|>>>> As well permeability is a charecteristic attribuatable to the power
|>>>> supply of a medium known as the capacitor/battery thus for space,
it's
|>>>> permeability (and thus the speed of light) may be attribuatable to
it's
|>>>> singularity (location of the Big Bang) as well as the total energy
|>>>> produced by the Big Bang, likewise in a capictor circuit, the rate
of
|>>>> time is determine by the permeability of the capacitor
(singularity)
|>>>> and the energy of the circuit(energy produced by the Big Bang and
when
|>>>> Bill Hubba farted (the latter added to see if he's reading
|>>>> this.....kaboom).
|>>>>
|>>>>
|>>
|