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Intro

For decades, to be precise since early 20th century with the rise of "modern physics" science, a big question arose due to a "world's genius" ideas. This has led to all sorts of confusions in school books and hilarious theories about the nature of the universe spread, such as "big bang universe" which is said to have a beginning and is expanding.

While even a bright child's mind may ask: "how could that be? if the universe had a beginning what had there been before". Still, this had been insufficient so far to just put aside such "theories". Instead scientists and engineers have to agree with contradictions and dogmas. So there we go... we must clarify what the misconceptions with Einsteins idea about "special relativity" and "speed of light" are.

The Simple Truth – There is NO Speed of Light at all

Galileo Galileo, Rene Descartes, Aristoteles and many other scientists and philosophers debated for centuries if either speed of light may be zero, whether it is constant or infinte. None of them ever asked: Does light, which is an electromagnetic wave, have a property of speed at all? Does speed of light exist at all? If there was such a property called "speed of light", then according to scientific method, an experiment should be made to measure the speed. There is no need to argue what concepts such as space and time may be, a speed could be measured by simply, well it might not be that simple after all, having two observers each with a precise clock, one observer sending a signal at time x1, and the other observer waiting for the signal to be received at time x2. And while there is space travel nowadays one observer could even be sent to moon and wait for a strong signal sent from earth to measure the delay of the signal if it was propagating with a speed. If there is no delay between x1 and x2, or if the delay is below margin of error, then no evidence was available for a property of speed of light. And this is exactly the situation with "modern physics science". No evidence is available for either a property of speed of light, the expansion of the universe, black holes, time travel or all sorts of other assumptions around this "theory". And while no speed of light could be measured until today with extremely precise measurement and sensory equipment, instead all sorts of weird statements are made such as while speed of light is said to be 300000 km/s it would be constant relative to a moving observers anyway. So without jumping to conclusions before referring to "real" applied science with electromagnetic waves right now it should be obvious already there must be reasons why all books on physics science are spreading lies when it comes to "speed of light" stated to be 300000 km/s. Also, there is other dis-information and confusion spread concerning speed of light, it's nature of particle-wave dualism, the nature of

matter with the equivalence of energy and mass, or the "doppler effect" which is not appropriate to argue red-shift would provide evidence for an expanding universe.

The Properties of Light

While there is no such thing as "speed of light", and the wording has to be precise since nothing can be faster then a thing which does not exist, meaning "exceeding speed of light" would translate to "being faster then nothing" which is nonsense. Nonetheless electromagnet waves can be characterized with properties which are:

- Frequency
- Amplitude
- Phase
- Polarisation
- Angular Frequency (Omega=2Pi*f)

Some derived properties of these are:

- Energy
- Intensity
- And many more

Also there is various prominent observations with electromagnet waves:

- Wave Interference
- Phase Shift
- Frequency Shift
- Resonance

All these properties are relevant for applied science such as radio carrier wave signal modulation, lasers, photography, solar cells, radar guns, GPS satellite navigation and almost all other today's high tech which benefits from the findings of "quantum physics". Contrary there is not a single practical application related the "special relativity theory" and the assumption of a property of "speed of light" which it relies upon. In fact, every single equation which refers to a property of speed of light 'c' could be either considered irrelevant or being crude fake science leading to discussions around time travel and similar weird phantasies.

<insert illustration>

How does GPS Localization Radar and Radar Speed Guns Work then if Speed of Light Cannot be Measured?

Imagine a "standing wave", since there is no propagation speed of light, being transmitted by the radar gun or GPS satellite:

- The electromagnet wave is transmitted
- The electromagnetic wave instantaneously (since there is no propagation speed of light) hits a (probably moving) target such as a car or aircraft and the wave again is instantaneously being reflected
- The wave and it's reflection INTERFERE, also instantaniously
- This interference pattern (signal strength) is measured

<insert illustration>

All this happens without a propagation speed of electromagnetic waves being involved.

To measure speed with a radar gun if a target is moving:

- The phase of the reflected wave shifts according to target's position
- And the resulting signal measured due to wave interference pattern changes (pulsing)
- And the interference pulsing speed indicates the speed of the moving target
- Which, again, is not related to a non-existent property of speed of light

To estimate the location of a target with GPS satellite signals:

- Again interference pattern of a wave and its reflection is measured
- But with multiple wave interference patterns from three or more moving GPS satellites have to be measured

<insert illustration>

Of cause all this is not trivial and according to the desired use case the properties of the electromagnetic radar waves such as wave length and amplitude must be tuned to allow for reasonable measurements at all. Also note, it is not "doppler effect" (meaning a frequency shift according to target speed) which books on physics and wikipedia articles are spreading disinformation about which is involved with it... it is the phase shift and its change with interfering waves relative to the position of a radar target and observer.

Information Theory – Shining up the Light and How Fast Information can be Transmitted

Common saying is nothing can be transmitted or move faster then speed of light. This might be considered true since there is no thing which could move faster than something which does not

exist. Got it? If there is no propagation speed than movement relative to it is pointless, as is the statement speed of light would be constantly measured as 300000 km/s regardless of relative movement to light source. Also there is no frequency shift involved with relative movements to a light source but phase shift alone. But let's get to the point, what are the restrictions then to transmit information with electromagnetic waves? In essence it all comes down to the fact that it is impossible to "switch" a signal in absolute zero time, meaning all signal changes need some time. That it takes time for a signal to change state, to switch, is not at all related to an erroneously stated propagation speed of the information this signal change carries. Here is a short list of related mathematical theories which are applied in practice for mobile phone radio signal modulation for example:

 Perfect Dirac impulse and occupied frequency band of it: an instant zero-time impulse would occupy infinite bandwidth

<insert formulas>

• Fourier analysis of a perfect rectangular signal would occupy infinite bandwidth

<insert formulas>

Bottom line: shining up a light always takes time. The faster a signal carrying information changes, the more bandwidth it occupies. Infinite "fast" transmission of information would occupy all available frequencies from zero to infinite. Good look when applying for a license to acquire this frequency band from your regulator.

Wave-Particle Dualism of Light

- Particle character is equivalent to Pi number... there is no half oscillation. Oscillation (electromagnetic waves) may loose energy be declining amplitude or declining frequency.
- Planck constant is equivalent to Pi number... but it is a scalar value
- Angular frequency Omega=2Pi*f is equivalent to the expression E=h*f → Energy is a scalar value also
- Light is an electromagnetic wave

Reasoning

- Nuclear Technology
- Military Radar and Data Transmission Systems
- Religious Big Bang Universe, no big bang, no god who created it
- No doppler effect frequency shift with EM-waves, no red shift, no expanding big bang universe; electromagnetic waves can and do interfere with dust and matter (ramsey, compton) which is why there is red-shift observed; compare with the sunset and light being shifted to red if distance of sunlight to percolate atmosphere increases due to angle of the sun relative to observer

- There is only one single fundamental physical force in universe, which is electromagnetism; gravitation is a specific form of electromagnetism; earth is a magnet, its rotation induces electromagnet field from north to south pole; all material is magnetic (polymers, alloy, ferrite, human body)
- Upside down.