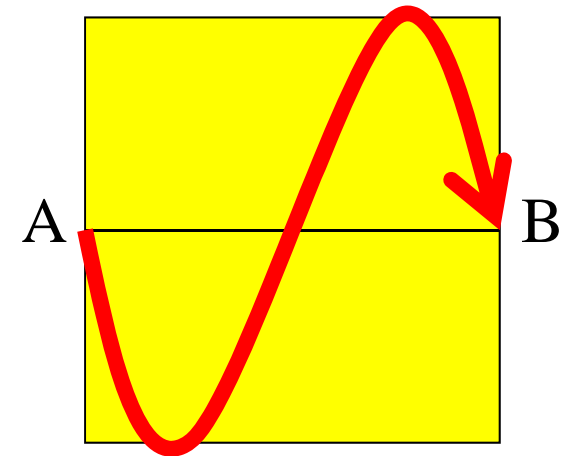
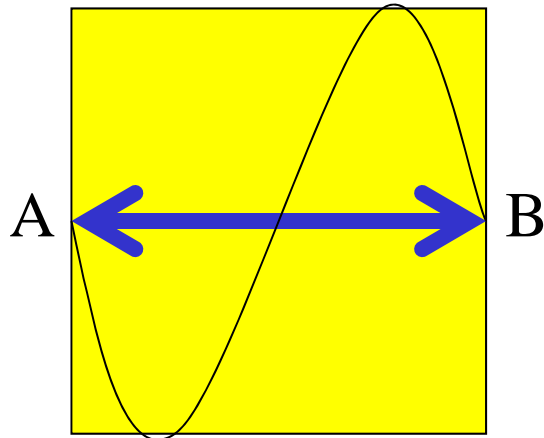


# The Speed of Light in a Vacuum is Not the Maximum Speed of Matter-Energy

Charles William Johnson

**Wavelength**



**Particle-Wave  
Path**

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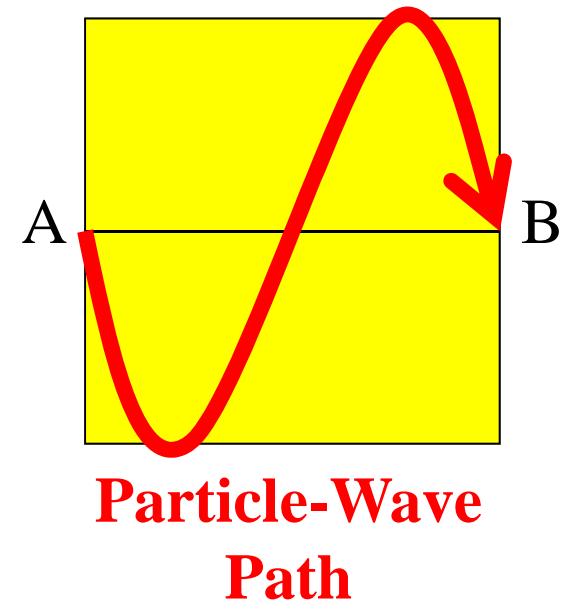
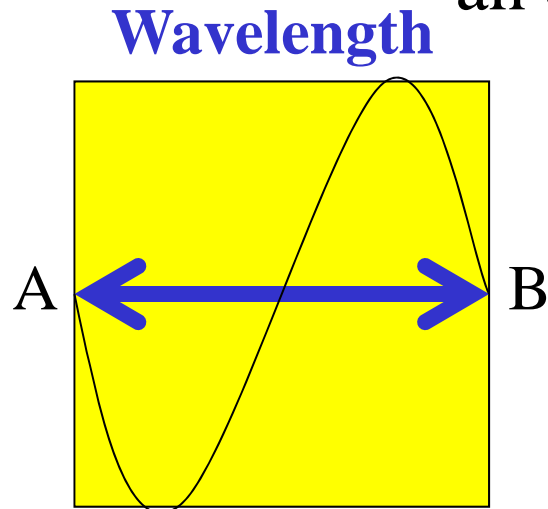
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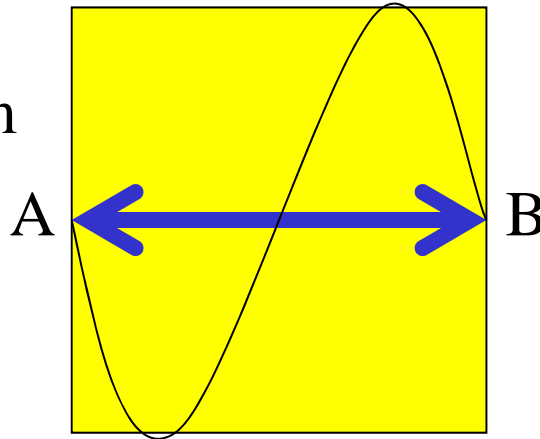
The traditional definition of the **wavelength** of an electromagnetic wave, the midline in blue, represents an abstracted non-existing spacetime event.



The **electromagnetic particle-wave path** represents a form of matter-energy, as an existing spacetime/motion event.

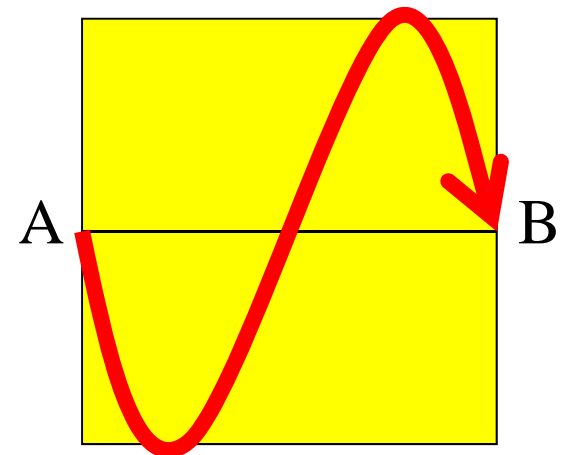
All electromagnetic waves are said to travel at the speed of light in a vacuum *along a straight line*, from points A to B.

### Wavelength



**A-B**  
**299792458 m/s**  
***c*-speed**

**A-B**  
**In order to travel between points A-B the velocity along the particle-wave path must be greater than speed of light in a vacuum**  
**>299792458 m/s**

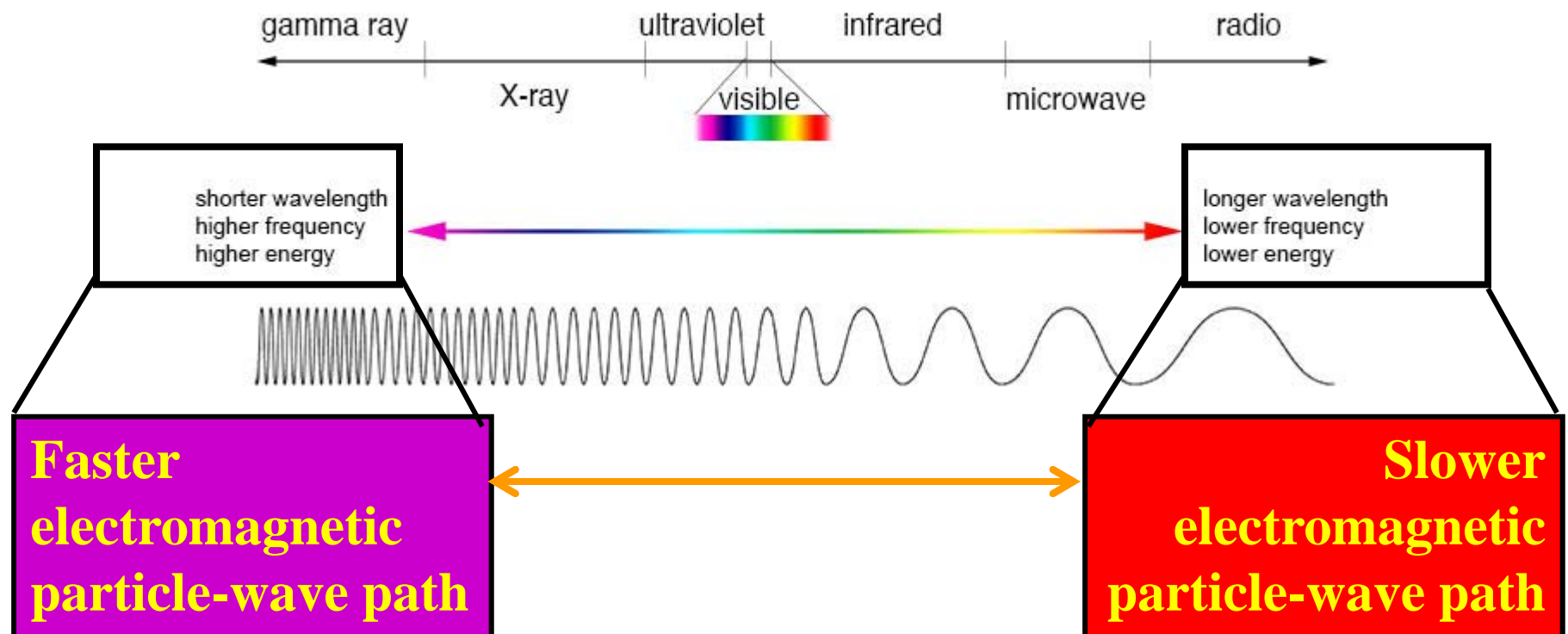


**Particle-Wave Path**

All electromagnetic waves are said to travel at the speed of light in a vacuum  
299,792,458 meters/second

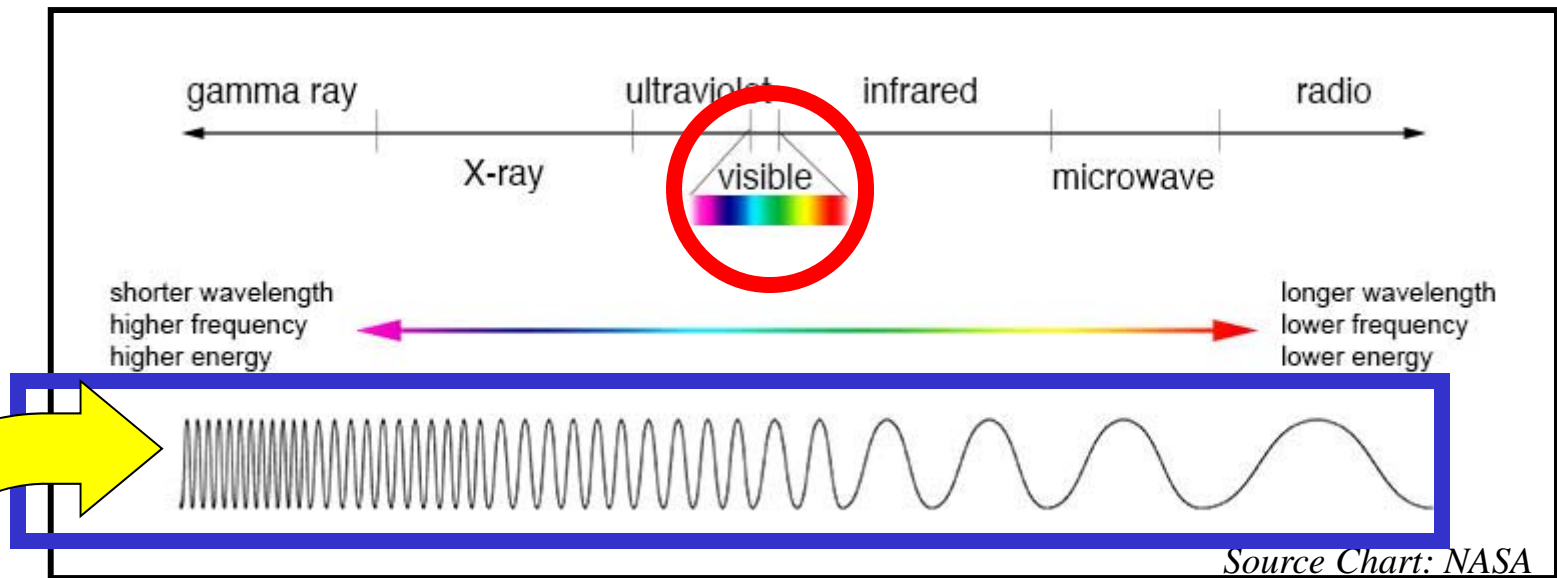
Superluminal Electromagnetic Particle-Wave Path  
An Additional Feature of the EMPW Spectrum

Source Chart: NASA



In order to sustain the  $c$ -velocity between two points, each electromagnetic particle-wave must travel at velocities above the speed of light in a vacuum. The phase velocities, the velocities along the electromagnetic particle-wave paths always exceed the speed of light *in vacuo*.

**Albert Einstein's special theory of relativity treats only visible light, the 1/1000th part of the entire electromagnetic particle-wave spectrum. This conclusion derives from the fact that Einstein poses his statements as of the theory of observation, I.e., as of an observer.**



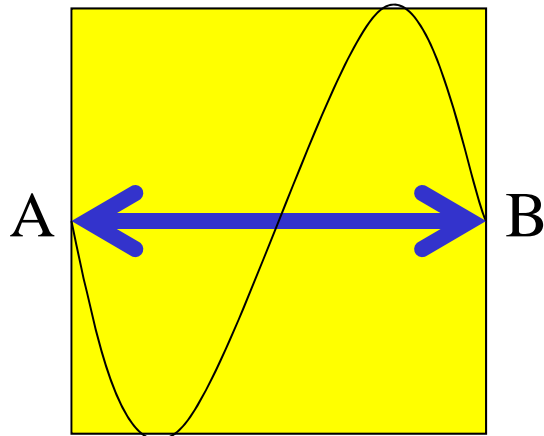
**All electromagnetic particle-waves are shown with same amplitude, but it is known that amplitude may vary. Different amplitudes will affect different phase velocities of the electromagnetic particle-wave paths.**

*The wavelength & frequency are obviously not to scale.*

**The Speed of Light in a Vacuum is Not  
the Maximum Limit Speed of Matter-Energy:  
*The Theory of Special Relativity is Wrong***

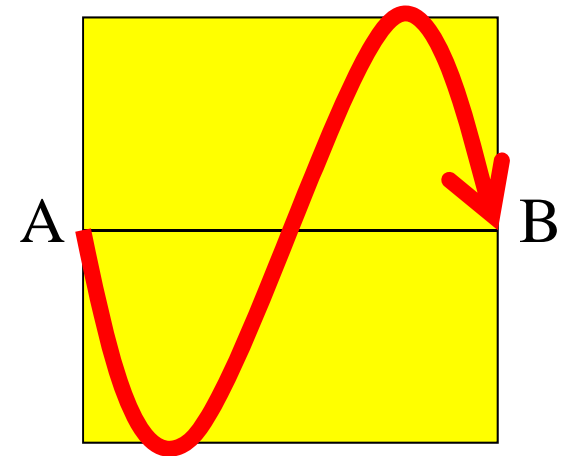
**A-B**  
**299792458 m/s**  
***c*-speed**

**Wavelength**



**Relativists disregard  
phase velocities,  
the superluminal  
velocities of the  
electromagnetic  
particle-wave paths.  
The particle-wave paths  
are forms of  
matter-energy and  
cannot be disregarded  
either theoretically  
or empirically**

**A-B**  
**>299792458 m/s**

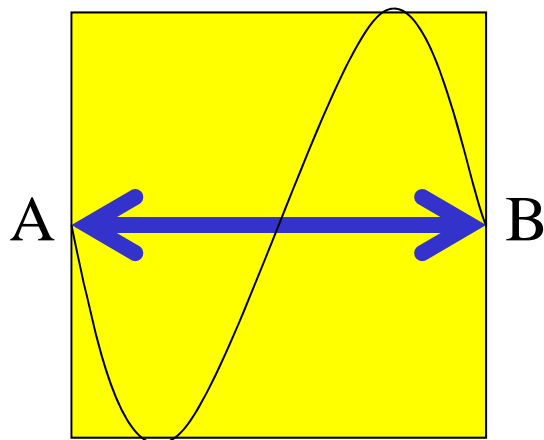


**Particle-Wave  
Path**

## Relativists Erroneously Contend that Phase Velocities Do Not Communicate Information or a Signal

The *wavelength* is an abstracted non-material event.

**Wavelength**

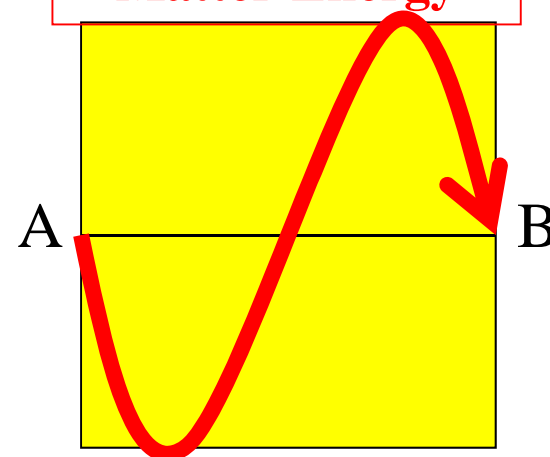


The traditionally defined wavelength, midline does not consist of matter-energy.

The electromagnetic particle-wave path of matter-energy carries the signal and information of light, color etc. The particle-wave path is in fact the **wavelength** of the electromagnetic wave.

“Wavelength” is a misnomer.

The Particle-Wave Path is a Form of Matter-Energy



The Particle-Wave Path is the Length of the Wave

# The Electromagnetic Particle-Wave Path Carries the Signal and Communicates Information

The traditionally defined midline represents an abstracted unit of measurement imposed upon the electromagnetic wave, but nothing exists along the midline or defined “wavelength”.

The Electromagnetic Particle-Wave Path  
is the  
Length of the Wave

