

## Re: Why is the speed of light what it is?

**Source:** <http://sci.tech-archive.net/Archive/sci.physics.relativity/2004-10/1274.html>

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**From:** jahn ([suzysewnshow\\_at\\_yahoo.com.au](mailto:suzysewnshow_at_yahoo.com.au))

**Date:** 10/04/04

Date: Mon, 4 Oct 2004 14:05:25 -0400

"The Ghost In The Machine" <[ewill@sirius.athghost7038suus.net](mailto:ewill@sirius.athghost7038suus.net)> wrote in message news:fr8732-595.ln1@sirius.athghost7038suus.net...

> *In sci.physics.relativity, Bill Bowden*

> <[wrongaddress@att.net](mailto:wrongaddress@att.net)>

> wrote

> on 3 Oct 2004 20:06:10 -0700

> <[ad025737.0410031906.50d5a073@posting.google.com](mailto:ad025737.0410031906.50d5a073@posting.google.com)>:

>> *Why is the speed of light 186,000 miles per second?*

>> *Why not 187,000 miles per second, or 185,000 miles per second,*

>> *or some other number?*

>>

>> *-Bill*

>

> *What, precisely, did you expect as an answer?*

>

> *Presumably,  $c$  is a condition of space; one method by which*

> *one can derive  $c$  is from the permittivity and permeability*

> *of free space. Other methods of deriving  $c$  might be possible;*

> *I'm not up on electromagnetics.*

>

> --

> #191, [ewill3@earthlink.net](mailto:ewill3@earthlink.net)

> *It's still legal to go .sigless.*

Space is a place where all the magnetic and electric fields from all the matter in the universe overlaps. When a these fields change at a particular point in space, as they must for propagation to occur, all the matter in the universe, sooner or later get a tiny force acting on it's inertial mass. You can see the effect in dielectric heating equipment and the velocity factor of transmission line or optical glass.

So... the speed of light is determined by all the matter in the universe.

This explanation is contrary to Einstein's "ether theory" but has none of the inconsistencies.

Kind regards,

Sue...