

Re: much slower than light

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- *From:* "srp" <srp@xxxxxxxxxxxxx>
 - *Date:* Tue, 31 May 2005 16:38:13 GMT
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"Joe" <kosmicjoe@xxxxxxxxxxxxx> a écrit dans le message de news:
avpn91976cdd5f4a9vroq1cfntkkl22th@xxxxxxxxxxxx

>
> If you have a low tolerance for dumb questions, I hope you will ignore
> this....

Questions are never dumb, but answers can be.

> I'm not much for math, but I do enjoy reading books on theoretical
> physics and I was hoping someone could explain something to me that I
> can't seem to find an answer to.... one that doesn't involve too many
> equations anyways. My internet searches tend to lead to material way
> above my head.

>
> I have been reading about higher dimensions and I think I understand
> the basics, with the whole flatland analogy. Push a pencil through a
> piece of paper and the 2D inhabitants only see a big hole forming
> for some unknown reason.

>
> My question is, so, this is where light comes from? Why we perceive it
> at times as a particle and at other times as a wave. Its the result of
> higher dimensions? We're just not seeing the higher dimensions
> involved? Like the old story about the blind men and the elephant?

>
> Or am I mixing up apples and oranges?

>
> Any help is appreciated, thanks for you time.

Historically, light has been seen at times as particles (Newton saw them as particles) then as waves (Maxwell), and again as particles (Planck). But since de Broglie, it is seen as some times behaving as waves and at other times behaving as particles. In all cases, there was no need to resort to more than the 3 dimensions of space plus time as a 4th.

André Michaud

- **References:**

- ◆ ***much slower than light***

- ◇ *From: Joe*

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