

Re: Time is the paper on which the pen of the aether writes.

## Re: Time is the paper on which the pen of the aether writes.

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*Source:* <http://sci.tech-archive.net/Archive/sci.physics.relativity/2005-06/msg00517.html>

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- *From:* "Bill Hobba" <[bhobba@xxxxxxxxxxxxxxxx](mailto:bhobba@xxxxxxxxxxxxxxxx)>
  - *Date:* Sun, 05 Jun 2005 01:29:16 GMT
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"EL" <[hemetis@xxxxxxxx](mailto:hemetis@xxxxxxxx)> wrote in message  
[news:1117932535.470859.249550@xx](mailto:news:1117932535.470859.249550@xx)  
> Bill Hobba wrote:  
>> "Curious" <[anthonyroseuk-curious@xxxxxxxx](mailto:anthonyroseuk-curious@xxxxxxxx)> wrote in message  
>> [news:1117909887.302021.65040@xx](mailto:news:1117909887.302021.65040@xx)  
>>> At any instant in time, matter and energy occupy a specific frozen  
>>> position.  
>>  
>> For a poster who posts under the name of curious you seem to be more  
>> dogmatic than curious.  
>> QM has cast extreme doubt on the idea of objects  
>> having a specific position.  
> [EL]  
> Which does not mean that nothing can be anywhere, or that everything  
> are not where they are at any event.

But that is not what the poster said. He specifically claimed matter occupied a position at any instant in time. QM says objects do not have the propriety of position independent of measurement. We simply can not speak of such.

> Uncertainty, concerns the impossible case of determining the  
> coordinates of a measured momentum of a particle.  
> If you revise the physics you preach Bill, you shall notice that  
> Momentum is the product of Force and a Time Interval.

Errrrr – EL classically force is the time derivative of momentum ie  $dp = Fdt$  – if that is what you are trying to say then I agree – but according to QM this does not apply except in the classical limit and according to Ehrenfest's theorem.

> The physics of  
> measuring momentum demands "passing" the wave that carries the force to  
> the measuring device.

Then banging a particle into another particle as per the photoelectric effect would not count I suppose.

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- > A wave cycle, by definition, cannot be a single
- > point coordinate, hence the impossibility of finding a single spatial
- > coordinate to express what occupies an interval rather than a point.

Like the above I have no idea what you are trying to say. The wave particle duality says QM stuff sometimes acts like a wave (in which case it has no definite position) and sometimes like a particle – in which case it does – but in reality it is neither.

- > On
- > the other hand, the centre of the quantum position can be determined
- > within a coordinate system if its momentum was not being measured
- > concurrently.

But not independent of measurement. QM clearly says such properties do not exist unless they are being measured.

- > Therefore, what "Curious" seems to be saying is that at
- > any event everything must be somewhere, regardless of "where" is that.

I can not speak for what Curious might be trying to say – I can only speak to what he wrote.

- > You most certainly knew what he meant, but there is older feelings
- > involved that I neither know or care to know about. Let no emotions
- > cloud your honest judgement.

When you wish to discuss what is written and not some pop psychology assessment of me then we can proceed.

Bill

- >
- >
- >> May I suggest you actually study physics rather
- >> than indulge in obvious armchair philosophizing?
- >>
- >> Bill
- >>
- >>> It requires the lapse of time for matter and energy to alter
- >>> their form and location. There is no real 'direction' of \*time\*
- >>> involved, so much as there is a direction of the transformations of
- >>> matter and energy from one state (old) to another (new). Time itself
- is
- >>> a neutral dimension, a backdrop which allows existence to be painted
- on
- >>> it. Each and every instant is a new painting on time.
- >>> Yes, there is a direction of old to new, which implies the possibility
- >>> of new to old, but it is not time itself which holds the direction. It
- >>> is really the arrangements of matter and energy.

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>>> So even if you \*could\* go back in time, the entire universe would  
>>> simply rewind with you.  
>>>  
>>> Furthermore time travel is logically not possible because the atoms  
>>> which you would hope to take back in time would increase the net mass  
>>> of the universe and would disrupt the flow of the universe  
immediately,  
>>> making it impossible for the same sequence of events to happen, making  
>>> it impossible for you to have left just as you did in the first place.  
>>> Don't be silly.  
>>>  
>>> Anthony Rose  
>>>  
>

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• *Follow-Ups:*

- ◆ *Re: Time is the paper on which the pen of the aether writes.*  
◇ *From:* EL

• *References:*

- ◆ *Time is the paper on which the pen of the aether writes.*  
◇ *From:* Curious
- ◆ *Re: Time is the paper on which the pen of the aether writes.*  
◇ *From:* Bill Hobba
- ◆ *Re: Time is the paper on which the pen of the aether writes.*  
◇ *From:* EL

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