

From: Deepak Chopra <[REDACTED]>
To: Jeff Epstein <jeevacation@gmail.com>
Subject: Fwd: Clock synchronisation, Relativity, Retrocausality and the Paranormal
Date: Fri, 05 Aug 2016 04:27:46 +0000

FYI



Deepak Chopra



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Begin forwarded message:

From: Deepak Chopra <[REDACTED]>
Date: August 5, 2016 at 6:26:33 AM GMT+2
To: Michelle Kathryn McGee <[REDACTED]>
Cc: <remicornwall@yahoo.co.uk>, JACK SARFATTI <[REDACTED]>, Shelli Joye <[REDACTED]>, Brian Josephson <bdj10@cam.ac.uk>, Cynthia Sue Larson <[REDACTED]>, Jim Johnston <jimjohnston@orion-research.net>, "C Langan" <chris@ctmu.org>, Paul Zielinski <[REDACTED]>, "Leanne Whitney" <august-moon@sbcglobal.net>, Deepak Chopra <[REDACTED]>, art wagner <[REDACTED]>, John Horgan <[REDACTED]>, David Kaiser <dikaiser@mit.edu>, "Stanley A. KLEIN" <sklein@berkeley.edu>, Rudy Tanzi <[REDACTED]>, "Henry P. Stapp" <hpstapp@lbl.gov>, "Stuart R - (hameroff) Hameroff" <hameroff@email.arizona.edu>, Jagdish Mann <[REDACTED]>, Kim Burrafato <[REDACTED]>, <[REDACTED]>, <[REDACTED]>, Russell Targ <[REDACTED]>, Joseph Firmage <joe@manyone.org>, Erhard Werner <[REDACTED]>, "creon levit" <[REDACTED]>, nick herbert <[REDACTED]>, "Saul-Paul Sirag" <[REDACTED]>, George Johnson <johnson@santafe.edu>, "John Alexander" <[REDACTED]>, " [REDACTED]" <[REDACTED]>, Robert Addinall <[REDACTED]>, <jwoodward@exchange.fullerton.edu>, Ante Lauc <[REDACTED]>, Gary S Bekkum <[REDACTED]>
Subject: Re: Clock synchronisation, Relativity, Retrocausality and the Paranormal

All causality is fiction in a non local universe .
The appearance of causality is a result of veiled non locality and cosmic censorship .
The observer is an activity of the total universe as is the observed .
Get over it people
You can't use an illusion to explain an illusion

Deepak Chopra



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On Aug 5, 2016, at 3:09 AM, Michelle Kathryn McGee <[REDACTED]> wrote:

Remi,

It has been a dream of mine to make the acquaintance of a capable and open-minded physicist who would review my work. Feel free to delve as you wish. Any and all feedback is welcome. I have met physicists over the years but none are willing to examine anything beyond the abstract. A good old fashioned Mexican stand-off!

I am currently preparing a paper for Cosmos & History, the philosophy journal where the Foundation of Mind conference proceedings go. A late draft is attached.
The title is "Notes from the existential underground: the universe as a complex emergent system."

In it, I refer to Chris Langan's work from 2002 (CTMU) and my own from 2003 (Novel View):
[Implications of a novel view of the cosmological energy density and pressure relationship \(Academia.edu link\)](#)

Your daring sensibility in deconstructing Jack's pet retrocausality has been a pleasure to read. Many great teaching/learning points and connections.

Regards,
michelle

On Thu, Aug 4, 2016 at 4:12 PM, Remi Cornwall <remicornwall@yahoo.co.uk> wrote:

Yes of course but how are the measurements communicated?

Say you have a box coupled electromagnetically to whatever its measuring and sending signals to control, how does the box communicate with the controller several miles away. By radio, yes, correct. What if the control communicates to the box by a quantum channel sending classical data with the measure/no-measure protocol**?

At the bottom of it, relativity is all about metrology/horology. You're communicating time and length standards.

Let's look at a time standard (limit to SR). The usual thing is clocks in a frame are moved from the origin very slowly to their destinations in the frame. They ping off the seconds and a record of their time and we can say, although they all keep the same rate of time, the distant ones are retarded or delayed as we read their times pinging every second back at the origin. We know full well that this is just the transit time but it is verboten to speak of distant observers having the same instant of time as oneself. This is the failure of simultaneity in time.

What if now we communicate our clock standard by a quantum channel and the collapse protocol (discernable by an interferometer, 0: no measurement, 1: measurement**)? We know that the collapse is instantaneous (let's not argue that, it's been measured, at least retrospectively***). We'd have simultaneity.

Now we can compare putative retrocausal effects against this gold standard of simultaneity as, at least in one frame, we can say we have an absolute tick of the clock. To be truly retrocausal, with this time standard, I would need some

phenomena where: variable = $f(t_1, t_2, \text{variable}, d \text{ variable}/dt, d \text{ this that}/dt \text{ etc.})$ and not merely have some retarded time term $t' = t - r/c$ because our gold standard quantum channel synchronised clocks would catch this (ha ha, light is "slow").

And it just may be... a gifted psychic person gets into a trance in a laboratory (today) and says, "let's all not meet here next week because the security guard goes mad at 11.30 Friday and kills us all" (and he does turns up next week and has no-one to kill, as predicted and avoided). *That* would be truly retrocausal. The effect from next week just pops into that locale (that point in space and absolute time) and his head with no discernable causality (no wave equation, no chugging of things through space-time, totally discontinuous).

In fact the sine qua non of a retrocausal effect could only be this discontinuous generation of events on a space-time diagram and the retrospective cognizance (or correlation) that it was connected to a future event WITH the absolute quantum channel time standard.

Note, this rules out the "magic" of entanglement collapse as retrocausal, as we have gotten over this little miracle and now use it as technology for our clock standards. Ergo, retrocausal is something else beyond this.

** http://webpace.qmul.ac.uk/rocornwall/Flyer_QSE1.gif and http://webpace.qmul.ac.uk/rocornwall/QSE_Bona-fide.JPG

*** Zbinden, H.; Gisin, N., et al, "Testing the speed of 'spooky action at a distance". Nature, 2008. 454

<MKMcGeeCosmos&History_Aug2016_working.docx>