From: jeffrey E. <jeevacation@gmail.com>
Sent: Wednesday, November 9, 2016 7:28 PM
To: Nowak, Martin A.
Subject: Re: ramblings but interesting mathematics.

Yes

On Wednesday, 9 November 2016, Nowak, Martin =. < ▉▉▉▉▉▉▉▉▉▉▉▉ =/a>> wrote:
<mailto: ▉▉▉▉▉▉▉▉▉ >

     can we talk?

         Begin forwarded message:

         From: Seth Lloyd < ▉▉▉▉▉▉ <javascript:_e(%7B%7D,'cvm=',' ▉▉▉▉▉▉ ');> >=br>
         Subject: Re: ramblings but interesting mathematics.

         Date: November 6, 2016 at 3:48:50 PM EST

         To: "jeffrey E." <jee=acation@gmail.com <javascript:_e(%7B=7D,'cvml','jeevacation@gmail.com');> >

         Cc: "Nowak, Martin" < ▉▉▉▉▉▉▉▉
<javascript:_e(=7B%7D,'cvml ▉▉▉▉▉▉▉ ');> >

         Reply-To: ▉▉▉▉▉ <javascript:_e(%7B%7D,'cvml',' ▉▉▉▉▉ ');>

         Dear Jeffrey,

         In both classical and quantum mechanics, there are descriptions of wha= happens that involve

information

         propagating backwards in time: they are equivalent to the ordinary des=riptions in which information

travels

         forward in time.

         Our experience of the present moment can be thought of as our neurons =umping back and forth

between

         the sensations just received and those immediately anticipated, as in =ur previous discussion of the

experience

         of walking.

         As we discussed, self awareness is a tricky concept.   I li=e your using this term instead of consciousness.
         After all, 90% of people are unconscious 90% of the time, and the rema=ning 10% are unconscious 100%
         of the time.   The ability to refer to oneself, to remember=one's actions in the past, and to imagine

oneself

undergoing   acting in the future seems to be a pretty powerful ability, and could =e quite useful in someone

the constant threat of natural selection.

of

that   Similarly, the ability to represent oneself to another self-aware bein= opens up the possibility of forms

cooperation and collaboration that are not available to those aware ne=ther of self or of others.   Note

self awareness is bound up in human language, in particular the fully =ecursive, self-referential type of language that Noam picks out as the essential driving engine of human =hought.

I suspect that one can construct games where self awareness coupled wi=h the capacity for recursive thought conveys a strong advantage.

I'd enjoy talking about this more.   Available this aft=rnoon (Sunday) and happy for distraction from excessive work.

Martin and I live around the corner from each other and are enjoying h=nging out and talking about just these kinds of things.   You should join us one of these day=.

Seth

On Sat, Nov 5, 2016 at 8:50 AM, jeffrey E. <jeevacation@gmail.com <javascript:_e(%7B%7D,'cvml','jeevacation@gmail.c=m');> > wrote:

if my future particle   pulled   its past in=o the present.   so that t was connected (consistant) to=(t- e) . would bells theorem be described as not a non local entan=lement , but the measurement of one particle influencing its p=st/ /   it would also help me with the derivation of zip=s law.   as the log normal distribution might =all out. if an event in the future already made it more probable =A0 for the next event. .

Seth,   martin and I are stuck on evolution of self awareness. =A0   what advantage?   martin originally thought=for communication.   so as to be able to tell someone , yo=r state./   what does it mea= to be in a state and be aware of it? does it require time. ? we describe a state from the outside as its properties in an=instant. all odd math,   gets me zero to=the zero power.   indertermnate ? is it 1 or zero.=C2 is it both. ? all fun

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please note

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=C2   please note