

From: Seth Lloyd <[REDACTED]>
Sent: Friday, October 21, 2016 9:31:39 PM
Subject: Re:
To: "jeffrey E." <jeevacation@gmail.com>

Dear Jeffrey,

My apologies for not responding sooner: I was off email for the last few days.

Of course thoughts are constructed from neural signals that move much slower than light but let's just take the suggestion that they move faster than light seriously. A couple of things would happen.

First of all, since going faster than light translates into the ability to send signals backwards in time,

this has implications for game theory. If you know your opponents moves in advance -- and they

know yours -- this restricts the set of strategies to non-cheating, non-deceptive strategies. I believe

that in such games one should be able to show that Nash equilibria are all optimal: unlike in prisoner's

dilemma, there is no incentive for cheating. This is sort of the opposite of what you are suggesting.

There is a sense in which thought processes are taking place in an extended setting simultaneously throughout the brain, so that faster than/slower than light is not so meaningful. In this setting, as you and Martin suggest, there is probably some pretty strong evolutionary advantage for consciousness

or sense of self reference. Indeed, just to ask the sort of question, If he does this, I'll do that, but if

he does this other thing, I'll do something else, requires a sense of self reference: one is modeling what one oneself will do in the future. This does indeed allow for extended cycles of deception and intent, which I think we agree are very important at least for human behavior.

I'd enjoy talking further so give a call any time you like.

Yours,
Seth

On Tue, Oct 18, 2016 at 7:12 AM, jeffrey E. <jeevacation@gmail.com> wrote:

if you have a moment i have a quick question. - assume for the moment that living things unlike physical things. have a component that travels faster than light. . thoughts? or call it x . it would explain the inability of detection by conventional means. martin and i are working on game theory of self awareness. the evolutionary benefit of what some call consiousness. the conjecture is that is no more than a dynamic error correction system. slow. easily overwhelmed and able to do simple tasks. if the mathematics of biology and

physics were symmetrical. physics would live in the slower than light , and biology in the faster. . . . deception and intent in biooogy , none of it in physics. .

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please note

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