

From: Deepak Chopra <[REDACTED]>
To: Jeff Epstein <jeevacation@gmail.com>
Subject: Fwd: Answering Mishlove - how to objectively measure qualia in nano quantum dot neural nets
Date: Sun, 14 Oct 2018 13:08:00 +0000

FYI

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Begin forwarded message:

From: Deepak Chopra <[REDACTED]>
Date: October 14, 2018 at 8:37:17 AM EDT
To: Remi Cornwall <[REDACTED]>
Cc: JACK SARFATTI <[REDACTED]>, Jeffrey Mishlove <[REDACTED]>, Paul Zielinski <[REDACTED]>, Brian Josephson <[REDACTED]>, David Kaiser <[REDACTED]>, George Knapp <[REDACTED]>, Hal Cox <[REDACTED]>, Henry Stapp <[REDACTED]>, [REDACTED], Jim Johnston <[REDACTED]>, Kerry Cassidy <[REDACTED]>, nick herbert <[REDACTED]>, Kim Burrafato <[REDACTED]>, Michael Murphy <[REDACTED]>, Michael Stenger <[REDACTED]>, Paul Werbos <[REDACTED]>, Robert Addinall <[REDACTED]>, Ruben Iskandaryan <[REDACTED]>, Saul-Paul Sirag <[REDACTED]>, Shan <[REDACTED]> "Stanley A. KLEIN" <[REDACTED]>, Stuart Hameroff <[REDACTED]>, William Birnes <[REDACTED]>, art wagner <[REDACTED]>

Subject: Re: Answering Mishlove - how to objectively measure qualia in nano quantum dot neural nets

We do not objectively measure anything only the qualities of the narrow bandwidth of human awareness .
Technology - micro and macro extends our range of human experience .
Ever quality attributed to a material world is a quality of awareness .
It is the light of awareness that brightens the world , gives it color and form , texture , heat , taste and fragrance .
To interpret a material world from perceptual activity in consciousness , known in consciousness and made of consciousness , is a useful human construct, a reification of evanescent sensations that allows us to do science .

Fundamental reality is formless awareness modifying itself as endless phenomena interpreted by humans as form .

There is no such thing as mind body or universe . These are magical lies created by humans .

In reality there is only consciousness experiencing itself as it's own species specific modes of knowing .

Consciousness knows itself as ever changing ungraspable qualia .

Qualia are qualities of awareness interpreted as mind body universe - a unified ceaseless activity of consciousness within consciousness .

Birth and death , universe and God are human constructs that prevent us from knowing that everyday reality is a lucid dream in a vivid now .

Now is not a moment in time but the non local timeless awareness in which moments arise and fall as perceptual activity giving us the ability to construct the notions of space time energy information and matter.

Everyday reality is a notion .

These notions seed consciousness and recycle and evolve as the human universe .

Mathematics may be the only non human construct and possibly deeply embedded in non local awareness giving it a formless scaffolding that weaves the fabric of observed space time and causality

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www.discoveringyourcosmicself.com

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On Oct 14, 2018, at 5:11 AM, Remi Cornwall <[REDACTED]> wrote:

This is getting better. Well done, you are putting meat on the bones.

On 10/14/18, JACK SARFATTI <[REDACTED]> wrote:

Very simple I have explained this many times. Neural nets are common now in classical AI machine learning.

So, all we have to do, is to compare the behavior in machine learning tasks of the same quantum dot net with the Frohlich resonant pump switched off and then when its switched on above the critical power flux density threshold for the emergence of the long-range coherent order parameter - analog of superconductivity. We need to provide the net with classical sensory inputs and classical motor outputs i.e. ANDROID with a quantum dot "brain".

These quantum dot neural nets are artificial micro-tubule networks along the lines that Hameroff says is the seat of consciousness.

arXiv:1802.05710

<<https://arxiv.org/abs/1802.05710>> [pdf <<https://arxiv.org/pdf/1802.05710>>],

ps <<https://arxiv.org/ps/1802.05710>>, other

<<https://arxiv.org/format/1802.05710>>]

quant-ph

Symmetry and decoherence-free subspaces in quantum neural networks

Authors: M. V. Altaisky

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Kaputkina

<<https://arxiv.org/search/?searchtype=author&query=Kaputkina%2C+N+E>>, V. A.

Krylov <<https://arxiv.org/search/?searchtype=author&query=Krylov%2C+V+A>>

Abstract: Evolution of quantum states of array of quantum dots is analyzed by means of numerical solution of the von Neumann equation. For two qubit system with dipole-dipole interaction and common phonon bath the evolution of the symmetric state $\uparrow\downarrow+\downarrow\uparrow$ leads to the mixture of the triplet states, leaving the singlet decoupled. For three qubit system ($D \otimes 3^{1/2} = D_{3/2} + 2D_{1/2}$) with common phonon bath we observed similar effects within the quartet state $D_{3/2}$ if all qubits were symmetrically connected. \triangle Less \diamond

Submitted 15 February, 2018; originally announced February 2018.

Comments: LaTeX, 11 pages, 6 eps figures

Entanglement in a quantum neural network based on quantum dots

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Abstract: We studied the quantum correlations between the nodes in a quantum neural network built of an array of quantum dots with dipole-dipole interaction. By means of the quasiadiabatic path integral simulation of the density matrix evolution in a presence of the common phonon bath we have shown the coherence in such system can survive up to the liquid nitrogen temperature of 77K and above. The quantum correlations between quantum dots are studied by means of calculation of the entanglement of formation in a pair of quantum dots with the typical dot size of a few nanometers and the interdot distance of the same order. We have shown that the proposed quantum neural network can keep the mixture of entangled states of QD pairs up to the above mentioned high temperatures.

quant-ph

doi

10.1063/1.4943622

<<https://doi.org/10.1063/1.4943622>>

Towards a feasible implementation of quantum neural networks using quantum dots

Authors: Mikhail V. Altaisky

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<<https://arxiv.org/search/?searchtype=author&query=Lozovik%2C+Y+E>>, Nikesh
S. Dattani

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Abstract: We propose an implementation of quantum neural networks using an array of quantum dots with dipole-dipole interactions. We demonstrate that this implementation is both feasible and versatile by studying it within the framework of GaAs based quantum dot qubits coupled to a reservoir of acoustic phonons. Using numerically exact Feynman integral calculations, we have found that the quantum coherence in our neural networks survive for over a hundred ps even at liquid nitrogen temperatures (77 K), which is three orders of magnitude higher than current implementations which are based on SQUID-based systems operating at temperatures in the mK range

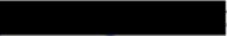
On Oct 13, 2018, at 5:27 PM, Jeffrey Mishlove <>
wrote:

Jack,

Can you explain just how “nano-tech quantum dot neural nets” would be capable of confirming your hypothesis? How could we determine whether or not they are experiencing qualia?

Jeff

On Oct 13, 2018, at 5:15 PM, JACK SARFATTI <>

<<mailto:> > wrote:

NANO-TECH QUANTUM DOT "NEURAL NETS"