

Review of: "The Emergence of Consciousness in a Physical Universe"

Erkki Brandas¹

¹ Uppsala University

Potential competing interests: No potential competing interests to declare.

The Emergence of Consciousness in a Physical Universe by Rajiv Singh

Review Erkki Brändas:

This is an excellent manuscript, although it does not mean that I agree with everything that is written. I have also read what the reviewers have said, and I think that they have made very good suggestions, capturing and asking for relevant clarifications and improvements.

While I think the paper, in its various details, has brought up very excellent problems for debate, I would venture an additional characteristic that concerns the discussion surrounding Fig. 4., i.e., the conjunction and disjunction of semantic values establishing the processing of neural functions.

Although this comment will identify the reviewer, the relation between the present manuscript and a recent result of the present reviewer, see https://www.neuralpress.org/_files/ugd/1dd990_2d8cf8b7271a47fc9c6dbe63f84c3c8e.pdf is so very striking that it needs to be pointed out. For instance, the factorized coding derived as an algebraic structure, see Eq. (26) in the reference above, is directly recognized as a geometric structure, i.e., is equivalent to the complete graph of polygons and polygrams, K_n , with rather surprising consequences.

Whatever the author decides to do with the presently proposed coincidence, I have no hesitations to recommend the publication of the latest version of the manuscript as it is, or if possible, with a 'note added in proof'.