

Review of: "Archetypal Resonances Between Realms: The Fractal Interplay of Chaos and Order"

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Potential competing interests: No potential competing interests to declare.

Review of "Archetypal Resonances Between Realms: The Fractal Interplay of Chaos and Order"

By Rob G. Sacco, Terry Marks-Tarlow, Bernard B. Beitman

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Sacco, Marks-Tarlow, and Beitman review major developments in science, mathematics, and philosophy using Jung's concept of the archetype of Order, the Ouroboros, and reiteration as a template. They go to the edge of our knowledge and beyond, imagining an extended reality including fractal geometry, complexity theory, quantum mechanics, and synchronicity.

I wish I could do justice in this review of an amazing article. The paper is beautifully written. They dance across the mountaintops of diverse fields of knowledge without going into lengthy descriptions, but they do give you enough references to major works so that you can investigate areas that interest you. This is not the usual repetition of other people's ideas.

The juxtaposition of many similar concepts is a circumambulation of facets of the Self:

- Archetypes as inherent patterns of conception and interaction
- The multiple and incompatible states that a particle can exist in considering quantum mechanics
- Real and imaginary numbers like brain and mind, beautifully illustrated by the Mandelbrot set, linking conscious and unconscious, order and disorder
- The pattern of the Fibonacci spiral where the repetition of the rule brings order

All are illustrations of iteration and feedback necessary for consciousness.

Is consciousness similar to the creation of order from the repetition and multiplication of connections in the brain, as proposed by the Global Neuronal Workspace model, thus creating a new, imaginary state, linked to, but not limited to, the physical? Does it result from the integration of information (IIT)? Both? Other? More? Is consciousness a dimension of reality that we link into? What might that mean in relation to synchronicity? The authors do not give answers, but they raise a lot of interesting questions and draw potential parallels.

One guiding thread throughout the article is the Ouroboros as a symbol of the archetype of Order. It can be discerned in

the mathematics of fractal geometry, in the chemistry of the brain and body, the mind and the creation of consciousness, and the emergence of symbols.

I found fascinating the possible links between an independent conscious dimension of reality and the mathematical concepts of fractal distributions with synchronicity.

They do not propose specific theories. They reference many areas for future research.

They end by pointing to real-world applications: medicine, health, personal development, the environment, and urban planning.

Warning: only read this article if you are willing to be 'entangled' into investigating its implications on multiple levels of knowledge.