

A comparison of three sub-quantum physics models of reality

	Raymond Awareness Model	Cahill Process Physics Model	Bohm/Hiley Model
1	At its deepest level, reality consists of awareness and everything that we can perceive and observe consists of patterns of information in that awareness.	Process Physics models physical space and quantum phenomena as patterns of information within a stochastic neural network. If this model corresponds to reality, then everything that we can perceive and observe would consist of patterns of information in such a network, which though infinite in size, is conceptually simple.	In the the Bohm/Hiley model, the observable level of reality of matter and space emerges from a lower level that consists of relationships involving processes, activity and movement. The sum total of all such relations is called the holomovement.
2	In the beginning, the awareness may have contained no patterns of information, but if so, we can suppose it had a capacity to create random patterns.	In the beginning, the network may have contained no patterns of information, but as a stochastic network, it would have a capacity to continuously create random patterns.	Bohm has written,"each relatively autonomous and stable structure is to be understood not as something independently and permanently existent but rather as a product that has been formed in the whole flowing movement and what will ultimately dissolve back into this movement."
3	As random patterns were created, a proportion would have had structures that would allow them to be linked into more complex patterns. We can suppose that the awareness allowed this to occur and that complex patterns could better persist than the simpler ones.	As random patterns were created, a proportion would have had structures that would allow them to be linked into more complex patterns. Feedback in such a network allows this to occur and allows complex patterns that link to others to better persist than simpler ones.	The above would imply that the universe as we know it emerged from and is being sustained by the holomovement.
4	Then over time patterns could emerge and evolve of increasing complexity.	Then over time patterns can emerge and evolve of increasing complexity. Computer simulation of a particular network was found to predominately generate 3 dimensional patterns that could be identified as an expanding 3 dimensional space and with other more highly linked patterns corresponding to quantum matter.	David Bohm also introduced the notion of Active Information. His idea was to use the activity of information as a way of explaining the actual nature of quantum processes. Active information would inherently have the ability to form patterns of information of increasing complexity.

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5	<p>We suppose this eventually led to a set of patterns with the right features to produce the universe in which we find ourselves.</p> <p>Eg. replication of patterns responsible for creating 3 dimensional space could produce the phenomenon of a universe expanding from a big bang.</p>	<p>Evolution of patterns could then eventually lead to patterns with the right features to produce the universe in which we find ourselves.</p> <p>Eg. replication of patterns responsible for creating 3 dimensional space could produce the phenomenon of a universe expanding from a big bang.</p>	<p>Then active information within the holomovement could lead to patterns with the right features to produce the universe in which we find ourselves.</p> <p>Eg. replication of patterns responsible for creating 3 dimensional space could produce the phenomenon of a universe expanding from a big bang.</p>
6	<p>We cannot perceive or observe anything outside our universe, however if physical objects consist of patterns of information within a deeper level of awareness, then that awareness might constitute a kind of fourth dimension.</p>	<p>We cannot perceive or observe anything outside our universe, however if physical objects consist of patterns of information within a deeper network then that network might constitute a kind of fourth dimension.</p>	<p>We cannot perceive or observe anything outside our universe, however if physical objects consist of patterns of information within the holomovement then the latter might constitute a kind of fourth dimension.</p>
7	<p>After dying the patterns of information corresponding to our physical body must fade away. But how about the patterns of information corresponding to our mental activity? Could they continue to persist within the deeper level awareness even after our physical body no longer exists?</p>	<p>After dying the patterns of information corresponding to our physical body must fade away. But how about the patterns of information corresponding to our mental activity? Could they continue to persist within the deeper network even after our physical body no longer exists?</p>	<p>After dying the patterns of information corresponding to our physical body must fade away. But how about the patterns of information corresponding to our mental activity? Could they continue to persist within the holomovement even after our physical body no longer exists?</p>
8	<p>Is our personal awareness linked to or produced by the deeper awareness?</p>	<p>Is our personal awareness produced by the deeper network and if so is the deeper network also in some sense aware?</p>	<p>Is our personal awareness produced by the holomovement and if so is the holomovement also in some sense aware?</p>