

## COMMUNICATION WITH INTELLIGENT EXTRATERRESTRIAL LIFE VIA THE QUANTUM ACTUALIZATION RECORD:

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The desire to contact other intelligent beings in the universe is well almost universal. We feel somewhat isolated on this planet and alone in the universe. For a social species such as ourselves isolation is unpleasant and we are naturally motivated to communicate and socialize. Unfortunately, we do not know whether or not other intelligent beings exist and where they might be. Furthermore, efforts to detect or apparently be detected so far have not succeeded. Like with so many issues the challenge is approached in a very fixated fashion basing communication hopes on what we are familiar with, namely electromagnetic waves and actual contact. There is another way that follows from my theory (A Symbiotic Model of the Universe) that I believe any intelligent life forms will appreciate and see as the only reasonable way to communicate. These beings might well be waiting for us to discover it and see it as a litmus test for the true sophistication of another life form. The importance of seeking alternative communication strategies is revealed by the limitations of electromagnetic based signals or direct contact.

Organized non-random electromagnetic waves would reveal intelligent life, and we have been inadvertently sending these into space for several years now without a response in kind. Powerful receivers are listening for these signals from various parts of the galaxy but none have been detected so far. Let us assume that there is intelligent life other than humans in the universe, not an unreasonable assumption given the size of the universe and number of planets of suitable composition. If intelligent life is hundreds or even hundreds of thousands of light years away, any signal originating from them will be largely meaningless in terms of specific content when it reaches us for two main reasons. First, how can we decipher the language and meaning of completely alien beings? Possibly the signal will be in the form of some math equation universal to all, but try explaining a culture on the basis of math. Second, the signal will have originated hundreds or thousands of years earlier and our response will take the same time to reach them. The beings sending it might not even exist any longer or at least will have changed significantly. In an era where we expect instantaneous communication, I doubt that many will find gaps of hundreds or thousands of years to be acceptable.

What about the possibility of actual contact? Given that we cannot even put together a voyage to Mars presently our role in space travel will remain limited for a long time to come. Extended range space travel captures the imagination of many to such an extent that realistic problems associated with it are almost completely ignored. These problems include: First, no biological life form is likely to survive acceleration to anything near the speed of light. Second, although aging will slow to a minimum near the speed of light (travel through space at near light speed leaves

little remaining for passage through time), speeds significantly below the speed of light will entail substantial aging, and hence the need for bodies to be placed in a state of virtually suspended aging that might not be possible. Third, at near the speed of light a collision with even a speck of dust will be equivalent to a nuclear explosion, almost certainly vaporizing the spacecraft. Fourth, biological organisms are at great risk of being decimated by infectious agents they lack any immunity for, and contact could eliminate both parties prior to adequate defenses being designed. Perhaps an automated ship of limited size could be sent but there is something impersonal about this for social beings, and we would not be directly communicating with them given the need at that point to send electromagnetic based signals back and forth and the time frame involved. I am not trying to dash the hopes of the romantic desiring contact with other intelligent life forms, and actually offer a way that is vastly superior to the above options, based on the quantum actualization record.

My theory posits that potentialities represented by superposed waves are provided by the quantum world, and interactions in the macro matter-energy world actualize certain potentialities. Actualization of a given potentiality results in collapse of the quantum-based wave function for that potentiality, and this event enters into a permanent quantum actualization record. Embedded in this record is information regarding the potentiality actualized. Macro form is described by a constellation of micro quantum wave function collapses. So crucial is this process that actualization of potentialities trumps even physical proximity accounting for entanglement and quantum simultaneity. Hence, if parts of an entity are separated physically any interaction actualizing a potentiality must be experienced by all parts simultaneously. The actualized record fully details the changes resulting from the actualization event. This quantum actualization record constitutes what we refer to as the past, and describes everything extending from perhaps a fraction of a second back to the very first potentiality actualized.

The quantum actualization record will prove to be a discovery of such significance that all other discoveries are virtually meaningless in comparison, even if they are summed together. It provides a perfectly accurate bias free record of everything that has occurred from the way a particular rock weathered to every thought produced by an intelligent being! By learning to identify and read this quantum actualization record everything that has happened will be known. Scientists could see exactly how all processes have unfolded from the start of the universe to just before the present. The information available would make it very difficult for anyone to cheat or deceive because the record reveals all. Hence, no one need be punished for a crime they did not commit. Regarding the future or exact present nothing is revealed because the future is only potentialities varying in probability, and the present actualization of certain potentialities. It is only when the potentiality is actualized that it becomes recorded in the quantum actualization record.

But how does the quantum actualization record assist us in communicating with other intelligent life forms? Given that this record details everything, once we formally discover and learn how to read it we will be able to identify every intelligent life form and exactly where they are located in the universe! Furthermore, by analyzing relationships between the recorded actions and communication patterns of those beings we will be able to learn their language/s and everything about their culture. Having such a detailed understanding of another life form will greatly assist in communication. One might still wonder precisely how we could communicate using the quantum actualization record? Any intelligent life forms that have discovered this record and learned how to read it will be aware of us and appreciate that we are now ready to interact. Even a thought by one of these beings with us in mind represents a form of communication, as it will be embedded in the quantum actualization record for us to retrieve. In response we can produce thoughts with them in mind, these actualized potentialities entering into the quantum actualization record to be retrieved by our distant friends. The delay in communication is likely to be a fraction of a second or perhaps a second or two, much better than the hundreds or thousands of years likely required with electromagnetic signals.

The quantum actualization record probably exists in an alternative dimensional realm where actualization and not physical proximity is supreme, eliminating the problem of travel through space by electromagnetic signals or in person to communicate. In the macro matter-energy world relativity is a reality, such that there is no simultaneity, and observers in different parts of the universe will see the others position and passage through space and time differently. These relativity effects seem to arise from the nature of space-time that is viewed as a dynamic entity in the theory presented. Those not physically linked can proceed at different rates through space and time, and hence simultaneity of events is meaningless. Fortunately, the quantum world generates potentialities for the entire macro matter-energy world and records the potentialities actualized, providing an accurate record of when events occur relative to one another. As part of this recording macro matter-energy based relativity variations are registered, allowing accurate interpretation and compensation for by intelligent beings.

The quantum actualization record offers many benefits including the option of safely and virtually instantaneously communicating with life forms intelligent enough to be aware of, identify, and interpret this record. Every thought and action that any intelligent being in the universe engages in will be revealed. This reality might produce shame and embarrassment given that the limitations of our own nature that we so carefully screen from others, and even defensively from ourselves, will be clearly evident to all. These emotions might give way though to acceptance of our own nature, strengths, and limitations, and that of other beings, fostering a more understanding, positive, and advanced approach to communicating and interacting with other intelligent life forms. Of course there will be a tremendous challenge ahead in terms of locating and learning how to interpret information embedded in the quantum actualization, but probably less than is required to mount long

distance space travel near to the speed of light, and once it is achieved we will no longer be isolated in the universe.