

## *The Anthropic Principle and Intelligent Design Continued*

*By: Paul Hoiland*

*Abstract: In this short article I continue to discuss the idea of could the Universe or even multiverse be a product of Intelligent Design. I avoid the assumptions used by Christian writers on this subject and simply point out an alternative venue under which this whole idea could be studied in science. I also supply a possible solution to the origin of life and how life started here.*

As I pointed out before Steven Hawking postulated that the wave function of the universe is one populating method. Different observers live in their different histories, and they are summed over in the no boundary path integral. In other words, observers in different universes live in different decohered branches of a single wave function. Under this given certain conditions required for life we happen to exist in one branch capable of life.

It has in challenge been pointed out that a universe with conditions all the same as our universe except the CMB temperature is higher is more likely, the probability of its occurrence is higher than for our type. So it leaves an unanswered question in itself concerning why with the odds higher for that type of space-time do we find ourselves in a de Sitter space which is a resonant state in the multiverse. That resonant state seems itself to require more than one vacuum state to produce the resonance against. That being the case it could be proposed that the mechanism is simply that ours is the natural resonant state of a multiverse of possible vacuum states. It is then as if all the quantum probability conspires to produce this type of universe in which life is possible.

The pseudo-Prior Geometry the quantum brane model I employed tends to produce a faster growth rate for cosmic structures like Galaxies. Something that has been observed very recently. Since one first needs structures like Galaxies in which planets can form and eventually life this model would tend towards a quicker development of life since everything else basic to life develops at a faster pace. But, the model does not supply an exact answer for when life first started.

I think the answer to that question goes back to multiple variable quantum states. Those against evolution have always pointed out that the high odds for certain events to transpire tend towards a negative on the question of evolution. However, if again, life or the start of life was a result of a resonant state of wave functions then those odds diminish to almost nothing against life starting given the basic building blocks are present.

We know the post BB universe was composed of mostly lighter elements. But if

galaxies formed quicker than a normal BB model would predict then supernova production of heavier elements would itself take place faster under such a modified BB model. It is these heavier elements that are required along with lighter elements to yield the building blocks of life and DNA/RNA. I would suspect then that the building blocks and life itself occurred vastly earlier on than most evolutionary models tend to suppose. I think these seed forms of life became scattered throughout the cosmos as it grew and evolved. They simply awaited the right conditions to spread in abundance and fill what ever opening became available. This being the case, our own Earth's evolution has probably had an interesting history. I would speculate that even if life first arose under earth Mark 1, the earth prior to the formation of the Moon, that such life was wiped out during that formation process. It was only after Earth Mark 2 had reformed and cooled down that a place for life to start again arose. That being the case I think one can propose that the seeds of life exist out in space itself. One place of possible hiding would be the Ort cloud, which from time to time has had objects enter into the inner system, crash into planets, leave dust behind in their tails, etc. Another would be the rocky, heavier mass objects that have from time to time impacted planets as they developed and aged.

These seeds of life then would all seem to share a common genetic format meaning that life everywhere should be based upon a common set of DNA elements. This in turn implies a prior-built in common set of DNA for all life that does arise. These seeds of life or simply cell organisms simply find a suitable place to take root, fill all possible avenues via diversity along evolutionary paths, and further evolve, flourish, and multiply as conditions allow. It is also possibly that the original simple cell organisms come in multiple variety to begin with even though their basic DNA patterns have a common basis.

This being the case, even though the mechanism of life and the timeline involved is not the same as the standard Creationist model, it does have elements in common with that model. It does have an earlier starting point for life and for the structure of the Universe. It does imply a reasoning for all life as we know it seeming to have a common DNA pattern upon which everything is built. It maintains that life is the normal instead of an accident of chance. It also implies that wherever the conditions are right life will arise and evolve. It also shows that even though we can prove the building blocks of life can be generated in a lab that there are elements of the requirement for life that we simply do not have the ability to generate at the present in a lab.

This leaves us as Scientists being able to study the planetary evolution of life to determine the how and why certain changes occurred, but, not with the ability to fully study the very start of life itself at least until such time as we can fully duplicate the conditions and variable quantum states in a lab under which such life first started. I would suggest that future attempts at exploration to search for life might want to consider capture of comet and other solar material to search

for the seeds of life itself.