

## 5.PRECURSORS OF SYMMETRY BREAKING AND ELEMENTARY PARTICLES

Of all the possible evolutionary paths of the universe from the multiverse we have some experience of knowing only our universe. Citing Gareth Lissi again, this universe suffered a symmetry break made wisely. Such a symmetry break is observed when the strings are represented. Another symmetry break will occur when configuring elementary particles.

We start from the hexagonal formations present in the coherent space of information. This space is bidimensional. If, however, we make a transformation of hexagons by joining peaks and transforming them into pentagons, we obtain the so-called Goldberg polyhedra. The number of these polyhedra is large enough to allow the representation of many entities, especially potential elemental particles or viruses.

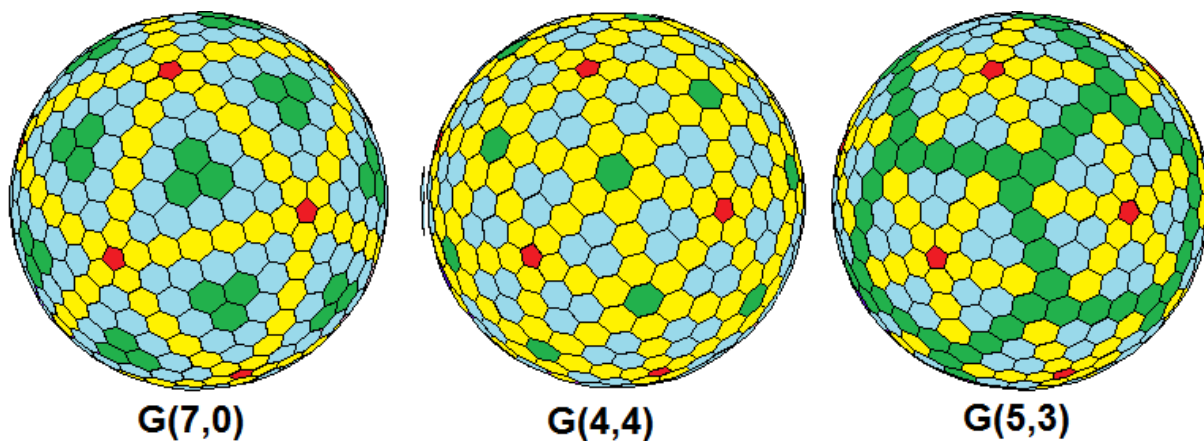


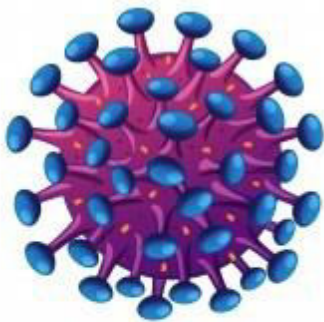
Fig. 100 Goldberg polyhedra

Some of the particles are resistant, having an infinite life time. Others have a short life span. Depending on which nodes have joined the tendency of the generated particles is to reach a regular form that can preserve their specific informational properties. Those who fail, degenerate and die. The latter had a symmetry break, which creates other properties of our material universe.

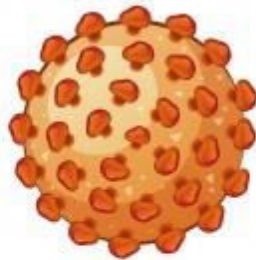
In any case, the transformation of the coherent space on many levels of complexity into Goldberg polyhedra preserves semantic content on hexagons and modifies the semantic content on pentagons. Where two nodes joined the resulting node will have semantic content derived from the contents of the nodes that joined.

From here comes an interesting conclusion, the elementary particles are in turn carrying information, because the number of nodes that join in the generation of pentagons is finite and forms an alphabet, which generates another hologram.

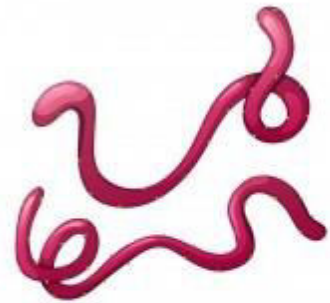
An interesting conclusion is found also in viruses, their shape remembers Goldberg polyhedra only that it is much more varied.



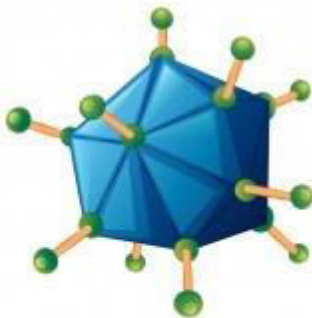
HIV



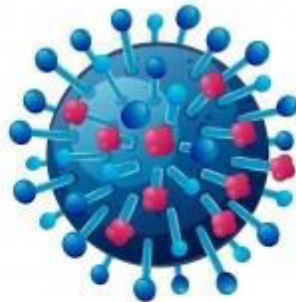
Hepatitis B



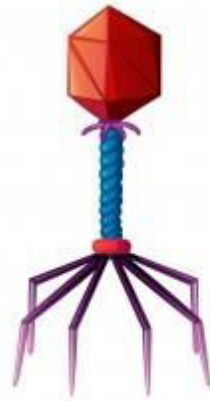
Ebola Virus



Adenovirus



Influenza



Bacteriophage

This variety is directly related to their models of functionality and is also conditioned by the intelligence of the matter and by the conditions of ensuring the necessity of the zero ecological footprint.

*We have witnessed together some analyzes made with the help of other thinking tools. The vague term of energy that is measurable has been replaced by the fine term of information that is ineffable. Changing the thinking perspective can make us more aware of the environment and with a more balanced, sustainable and responsible behavior.*

The analysis of the intelligence of the matter achievable with the help of algebraic fractals and the coherent space of information allows us to introduce through education the new thinking model. This is the only means of reconfiguring the mental maps so that people become more attentive and perceptive to the problems of the natural environment caused by indifference and lack of human thinking.