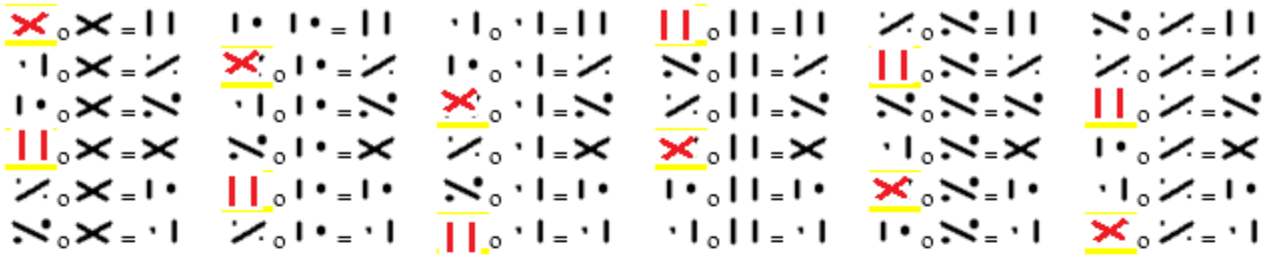
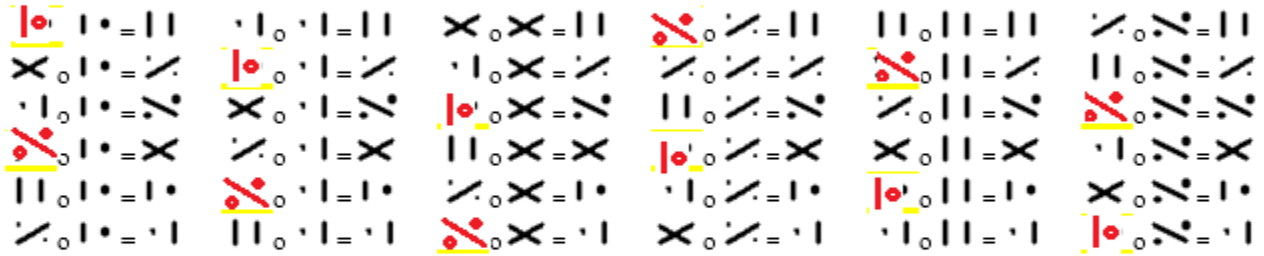
44.THE SPIRAL AND THE TOR IN THE THEORY OF ALGEBRIC FRACTALS

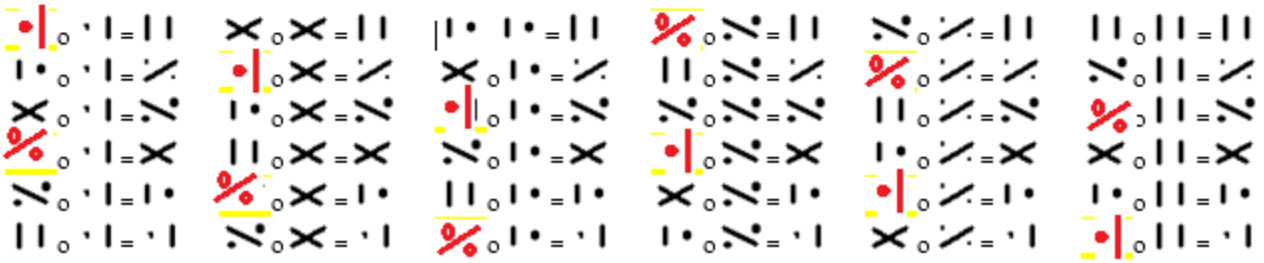
Anyone studying the phenomenon of life comes across DNA informational structures. These structures are not only carriers of memory, they have more than a very special double spiral shape that is not found except in the phenomenon of organic life. However, a primordium of this form related to DNA structures exists as a phenomenon in algebraic fractals:



Diagonala principala pentru ✕ si pentru ▮▮



Diagonala principala pentru ▪ si pentru ⁘



Diagonala principala pentru ▪▮ si pentru ⁘

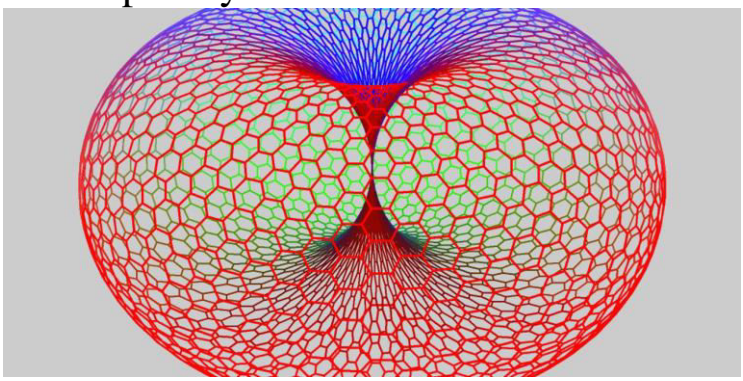
If the 4 rectangles are twisted around the horizontal axis so that the horizontal lines merge, we will obtain a cylinder on whose surfaces will find two parallel spirals, similar to the DNA spirals. Cylinder heads can

be joined and will generate a longer cylinder (a longer double spiral), or they can be joined by generating a circular tor. The presented information structure works with the packages of letters that generate the green colored field corresponding to the matter.

This observation may direct certain research to other directions of approach. At the fractalization level of the multiverse we find another phenomenon that leads us this time to the strings.

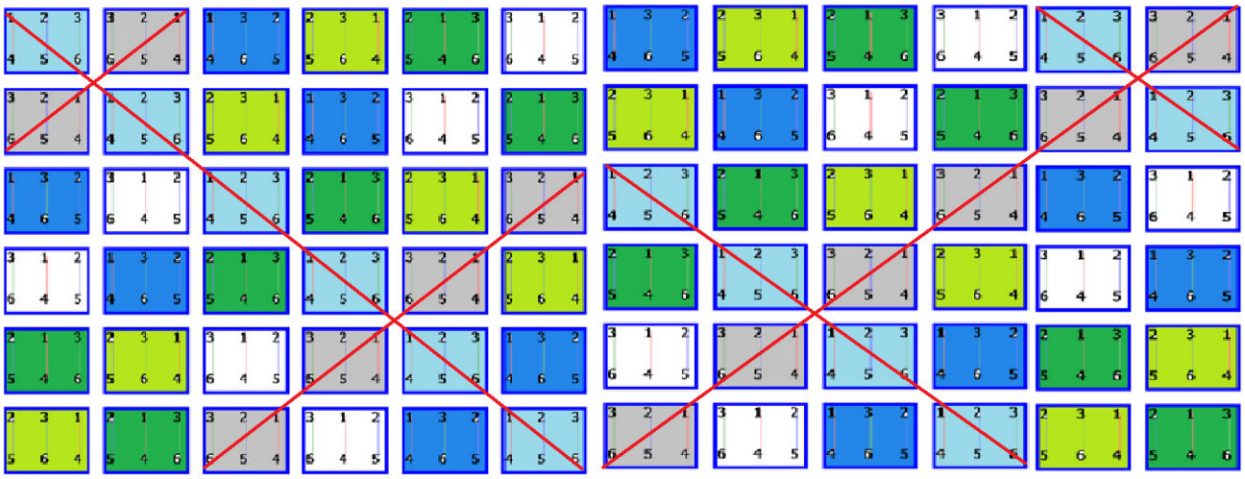
The evolution from the most primitive species to those evolved in successive stages with the sustainability of the species assembly, cannot be accidental. It is subject to laws and functionalities that depend on the informational structure of the coherent space of information that allows testing on many initiating routes that converge to the same final result.

However, there are similar patterns that can be found at all levels of complexity. These are the TORS.



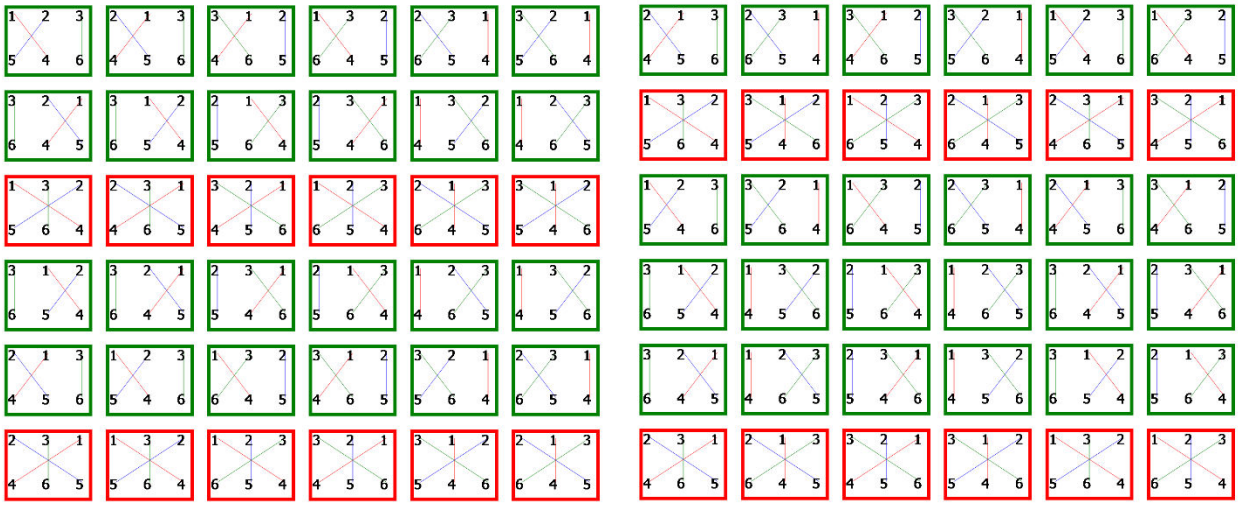
Tors can have many formulas of representation or construction, some of them are spiral, or double spiral. Others with informational content present only a spiral. If they are represented as rectangles, the tors will look like this:

O	PRODUCTIE	ORGANIZARE	ADMINISTRA	EVOLUTIE	DEZVOLTARE	ORGANICIZARE
PRODUCTIE	EVOLUTIE	ORGANICIZARE	DEZVOLTARE	PRODUCTIE	ORGANIZARE	ADMINISTRARE
ORGANIZARE	DEZVOLTARE	EVOLUTIE	ORGANICIZARE	ORGANIZARE	ADMINISTRARE	PRODUCTIE
ADMINISTRARE	ORGANICIZARE	DEZVOLTARE	EVOLUTIE	ADMINISTRARE	PRODUCTIE	ORGANIZARE
EVOLUTIE	PRODUCTIE	ORGANIZARE	ADMINISTRARE	EVOLUTIE	ORGANICIZARE	DEZVOLTARE
ORGANICIZARE	ORGANIZARE	ADMINISTRARE	PRODUCTIEE	DEZVOLTARE	EVOLUTIE	ORGANICIZARE
DEZVOLTARE	ADMINISTRARE/	PRODUCTIE	ORGANIZARE	ORGANICIZARE	DEZVOLTARE	EVOLUTIE

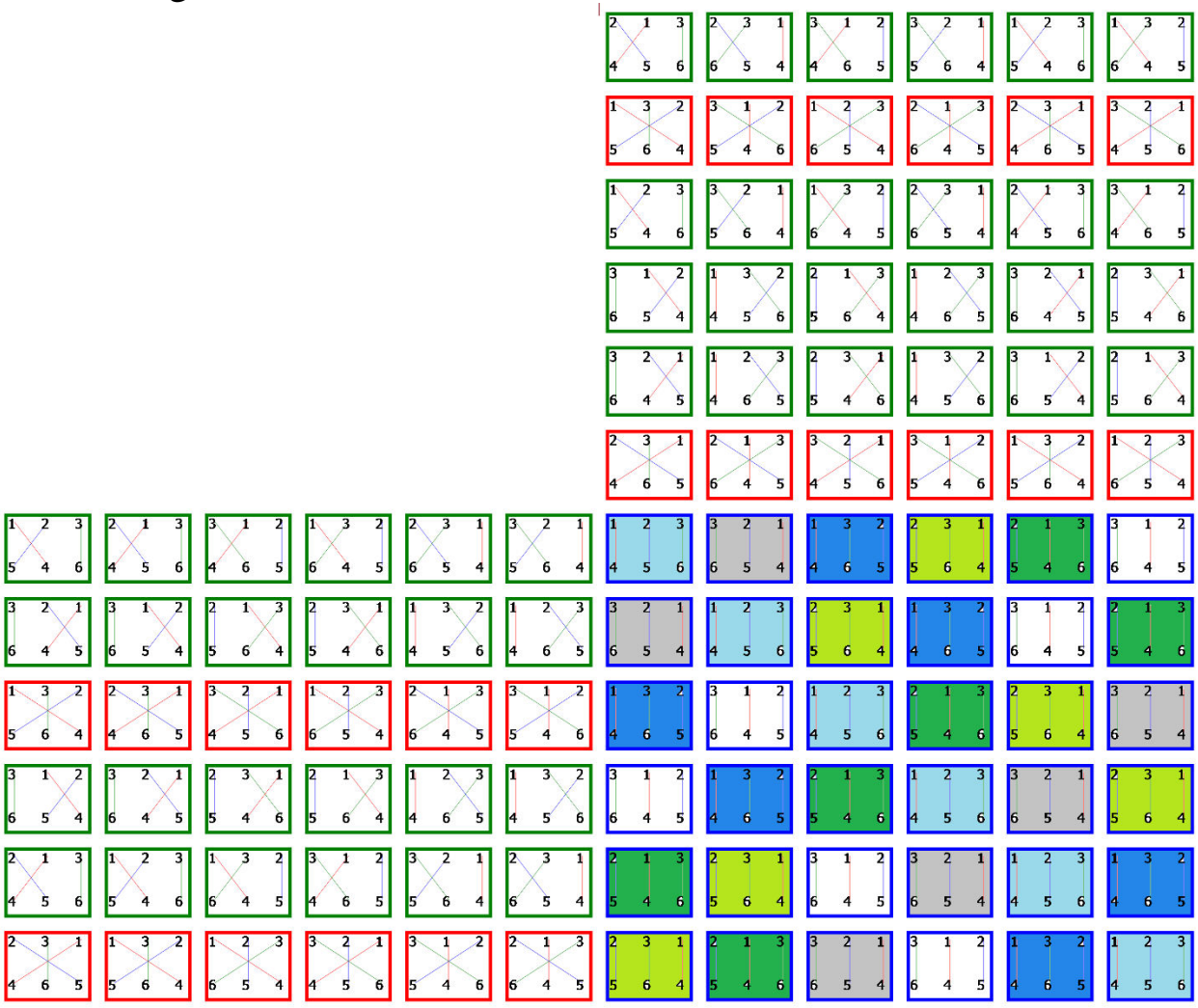


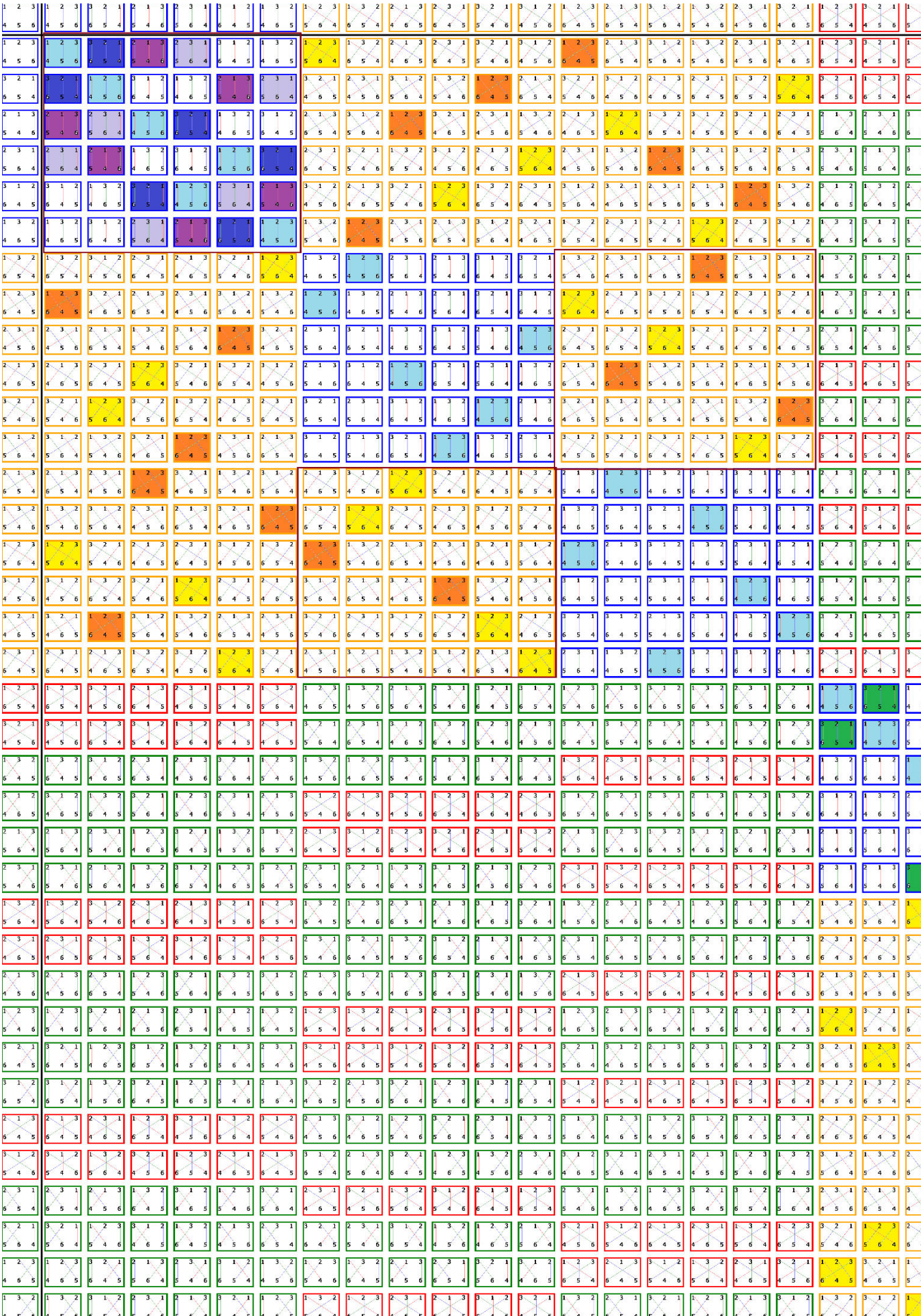
In the cases above, we are talking about semantic tors represented by organizational models, or by organizing the multiverse.

In other cases regarding the composition of the multiverse under certain restrictive conditions we will discover the codes that condition the toric properties represented above.



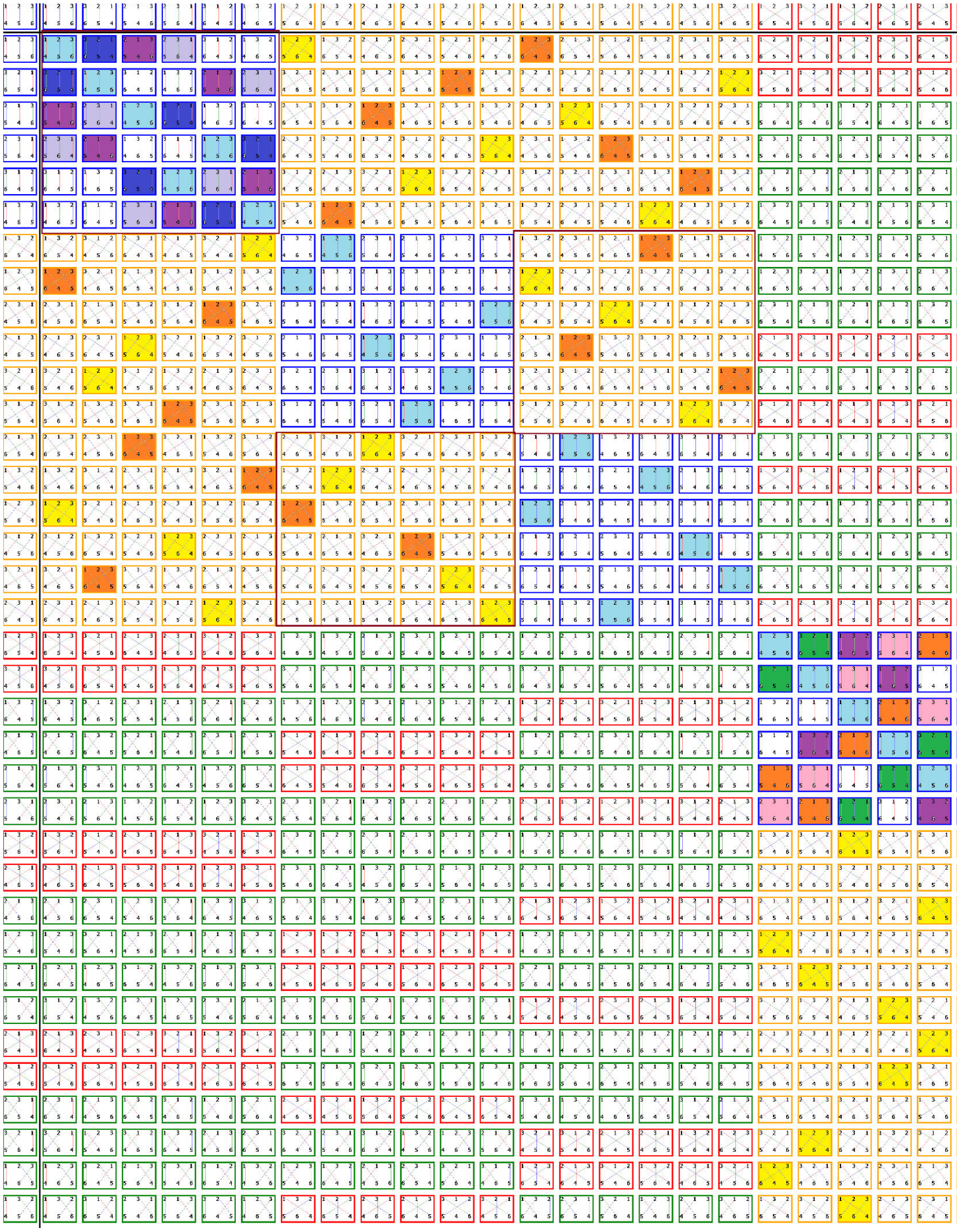
Each of the lines represents a sequence of code specific to a set of universes. These sets of codes generate the tors system that generates the intersecting tors.





We notice that the fourth rectangle diagonal from the top left to the bottom right initially behaved like a cylinder, if we glue the vertical sides. If we also glue the circles at the base of the cylinder, it generates a tors that has two continuous spirals on it, the blue one and the green one.

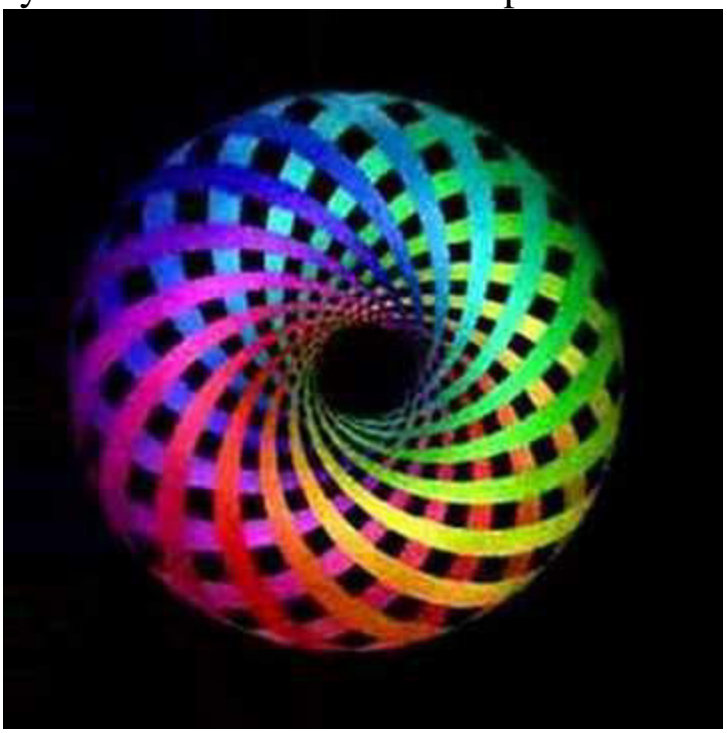
Observing the significant details that derive from the semantics of the functionalities allows us to analyze the information from the point of view of the functionalities and internal relations. It can help us model reality and understand it better through functional modeling.



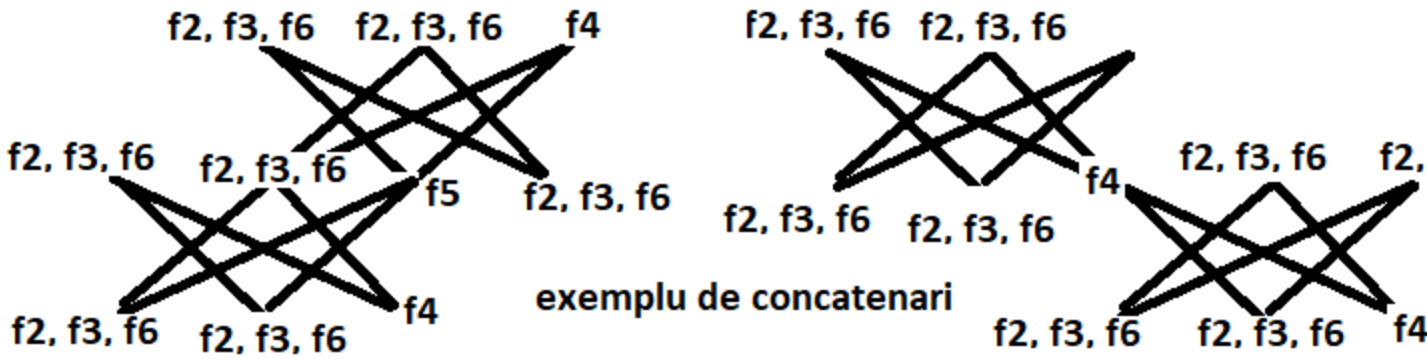
We also noticed that the other colored squares form symmetrical structures parallel to the two main toric diagonals, the green and the blue one, very clearly visible on the tors. At first each small colored square was uniquely located at the intersection of a line and a column. This property is preserved if we transpose between two lines or between two columns. Considering the main column as having the genetic (generic) information of the universe, and the main line having the contextual information, the color matrix shows us the adaptive-evolutionary structure of the respective universe, similar to a genetic code of the respective universe. This product corresponds to grade 2 feedbacks.

If the cylinder is not closed in the tors, cylinders with double spirals can be connected to each other, maintaining the continuity of the double spiral, forming a kind of DNA type chain, but with complex informational formations on 4 levels.

On the other hand, the connection of double spirals forms ventris and virtual nodes without informational content, but in the case of nodes, they will be nucleation centers for coherent information that will systemize the informational space.

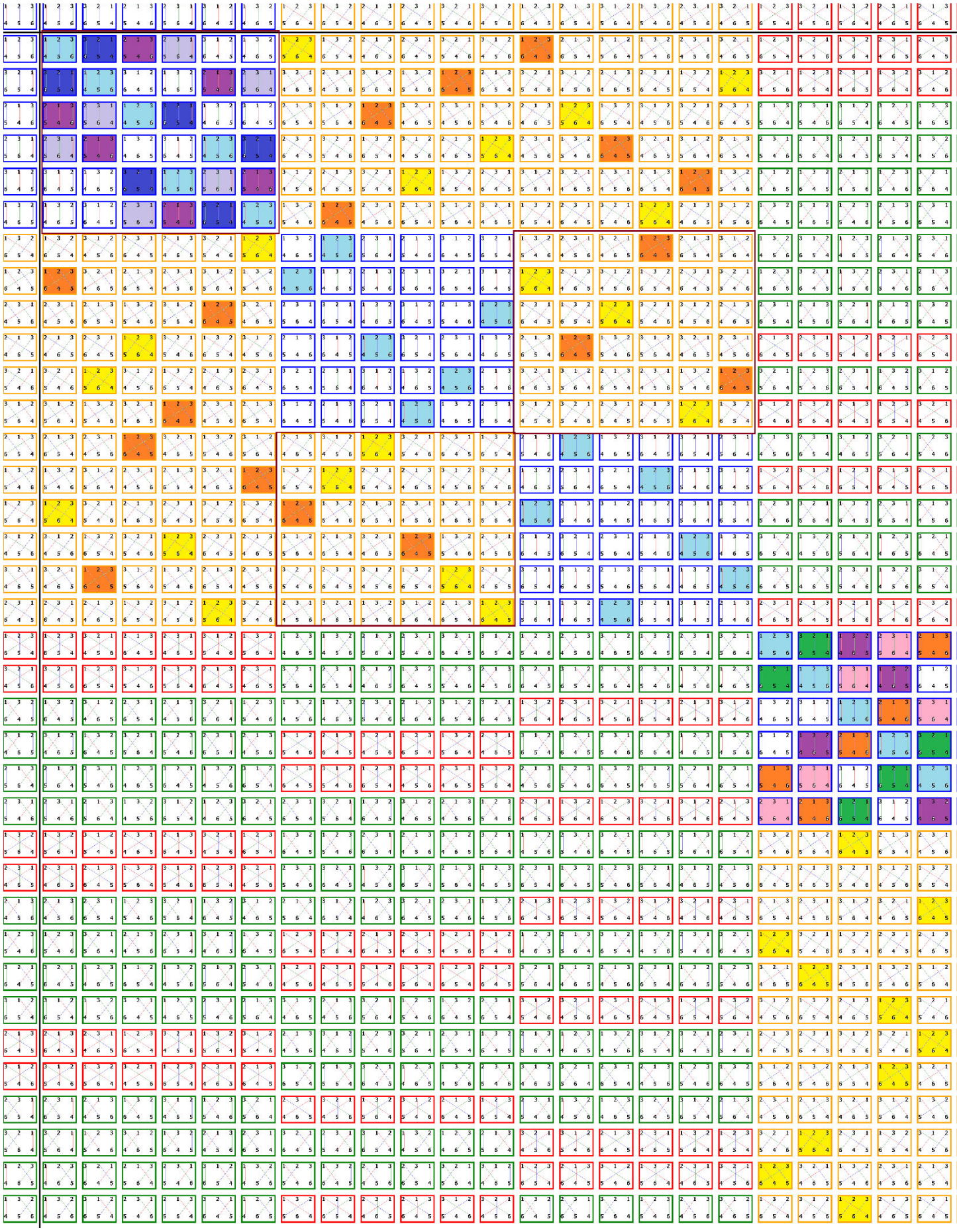


The systematization process is essential due to the multiple possibilities of connecting information from the 1st degree feedback that is concatenated on a button or two buttons. These concatenations on grade 1 feedback can be done on feedback from different universes, but without structured selection tools, they are random.



exemplu de concatenari

Laminar concatenation



If the blue squares in the figure above overlap the common buttons with the same informational content, then an incomplete leaflet of squares is created, which leaves many positions free of information, containing structures of the universe represented by 3 parallel lines. The completion of these informational structures can be done with the help of grade 1 feedback, such as the smallest bricks from the informational supplementary construction, or the feedback packages that generate letters or packages of four letters that generate pictographic signs.

For each of these variants of informational packaging, the tridimensional position of the elements entering the package can be different, which greatly multiplies the number of variants to complete the leaf structure. The problem is solved by the multiverse through trial-error-correction, resumption until the determination of a position consistent with the initial basic structure. This is the process of adaptive evolution of the universe, which constantly develops its processing capacity by experimenting with optimal solutions. From this point of view, the memory of the water that has Brownian motion of the molecules is perfectly explicable.

The existence of structural frameworks that can be found on various levels of complexity, together with the possible internal transformations that can allow the optimization of structures and adaptation to different situations, are the two directions that can be taken over by our internal programs and which lead us to evolution.