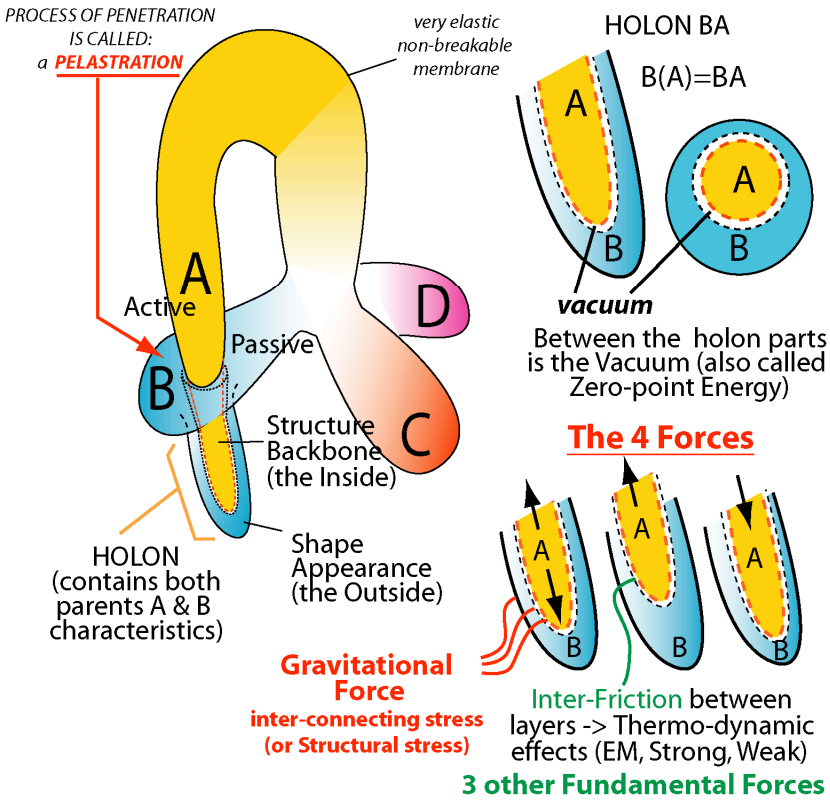
e-Book

THE INDESTRUCTIBLE BACKGROUND AND TOPOLOGICAL HOLONS

.... understanding interconnectedness



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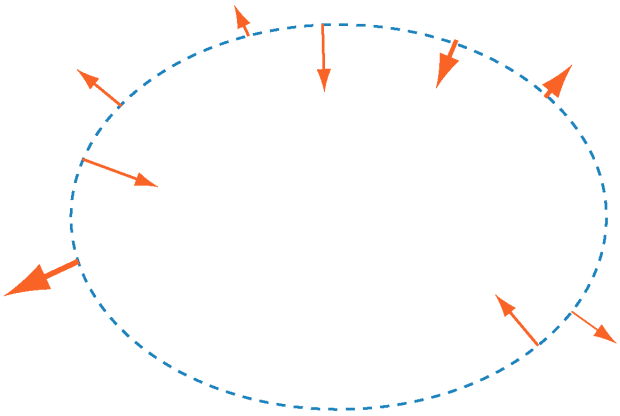
DRAFT VERSION - August 2005

For All Catalan Sets - Level: 1

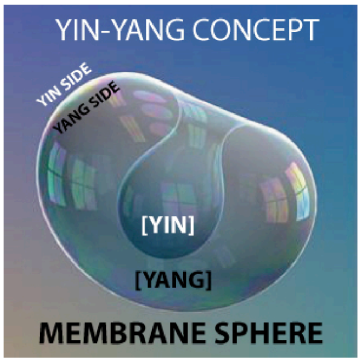
REF.: 1

This is the basic MEMBRANE. It is a closed sphere. It is a **non-breakable** but very elastic background. It is very dynamic and vibrates (oscillates) constantly. It is not possible to rip, tear or cut apart in pieces or to perforate. The membrane is indestructible.

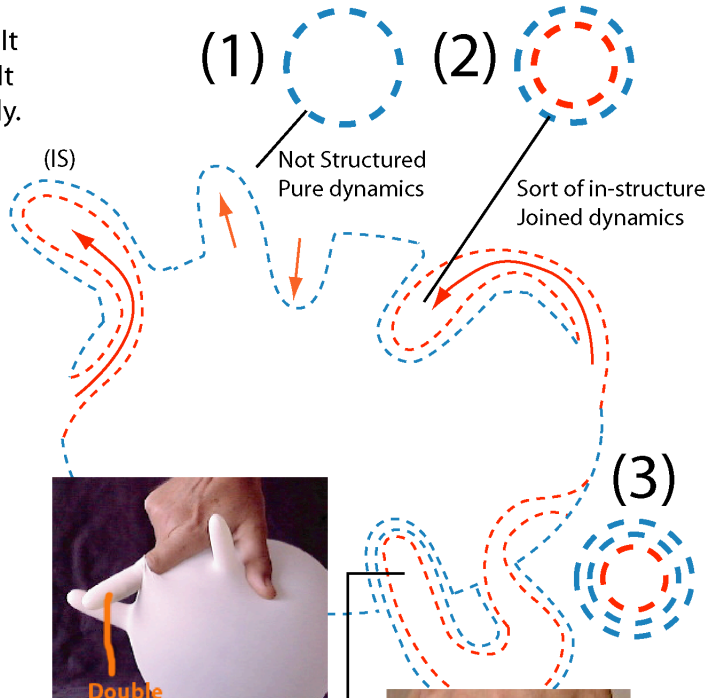


Not Structured

THIS IS UNMANIFESTED ENERGY, THE POTENCY.

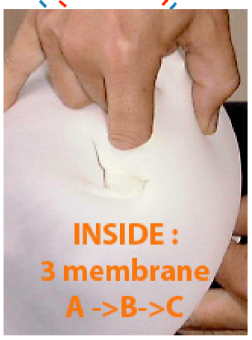


Local # Layers:



Example: One finger of a medical glove goes through another finger

More in-structured than (2)
More Joined dynamics
=> Restrained dynamics



Finger -> finger -> finger.
Result: 3 layers of membrane OVER each other

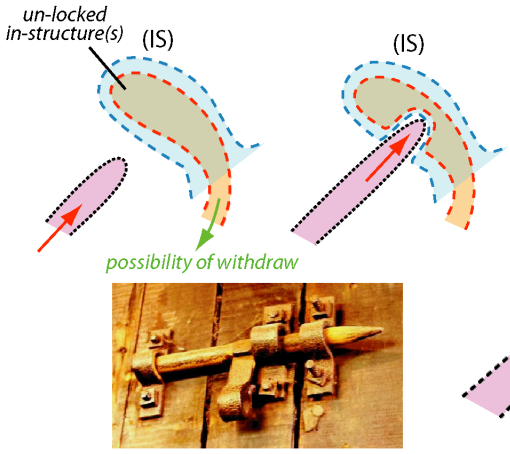
In-Structure = In-Formation
More In-Structure = **More** In-Formation

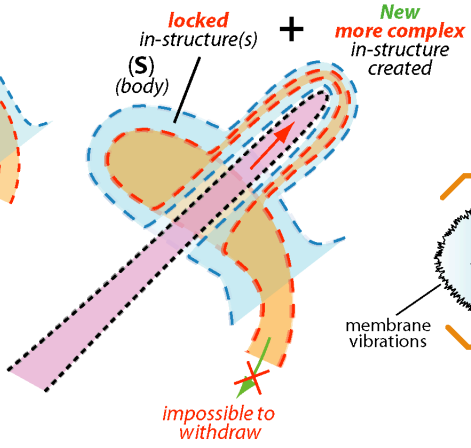
The Membrane has the potency to CREATE Structure(s) on various SPOTS (Locally) of it's surface

---

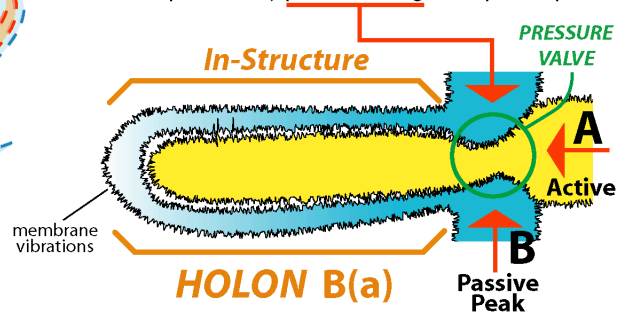
BUT ... HOW TO **FIX** OR **LOCK** THESE LOCAL IN-STRUCTURES?

The Membrane has also the inherent potency to LOCK it's own local spots of in-structure. Because the membrane is non-breakable (indestructible) active peaks can penetrate (push-away parts of) passive peaks, that way they will lock existing in-structure zones ***and*** they will create new fixed (in-structured) **bodies**. The penetration process is called a "Pelastration'.





An In-Structure may also be more or less fixed if the joint area evolves to a type of pressure valve, provoked by pressure raising in the passive peak.

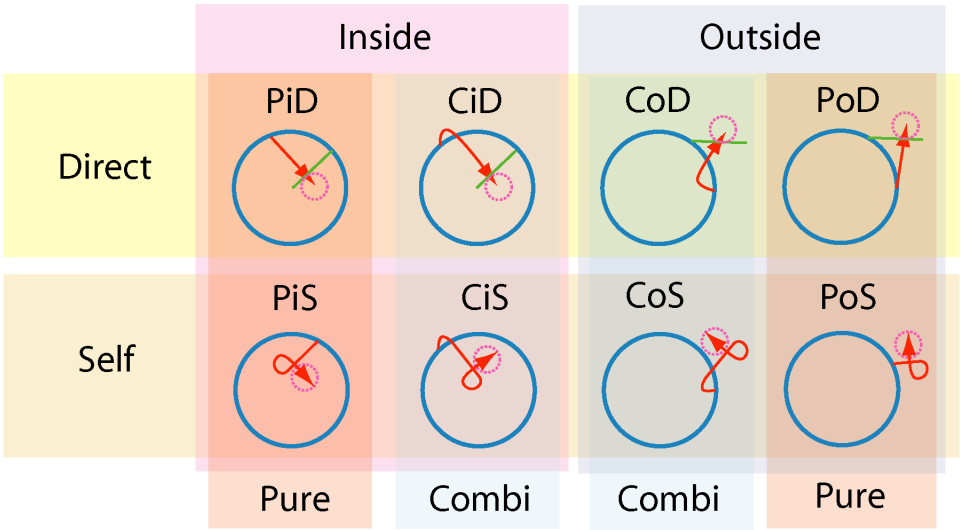


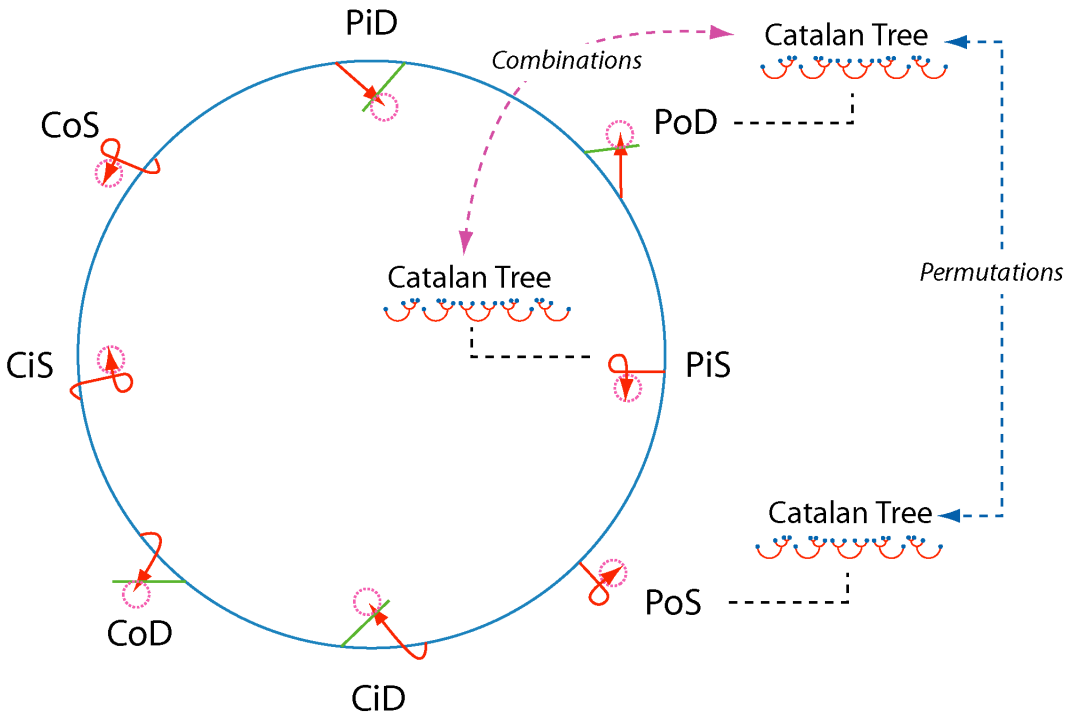
So ***IN-Structure*** becomes **STRUCTURE** (because it is fixed) and '***In-Formation***' becomes **INFORMATION** (which is stored and fixed on the membrane). After Koestler we call these structured bodies (made by two parent parts) : **Holons**.

ON THE MANIFESTED LEVEL (HOLONS) FOUR SETS OF COMBINATIONS ARE POSSIBLE.
PURE INSIDE (Set Pi), PURE OUTSIDE (Set Po), COMBINED INSIDE (Set Ci), COMBINED OUTSIDE (Set Co)

IN COMBINATION TO THOSE FOUR SETS, TWO DIFFERENT TYPES OF
PELASTRATIONS CAN BE MADE: A DIRECT PELASTRATION (D) OR A SELF-PELASTRATION (S)

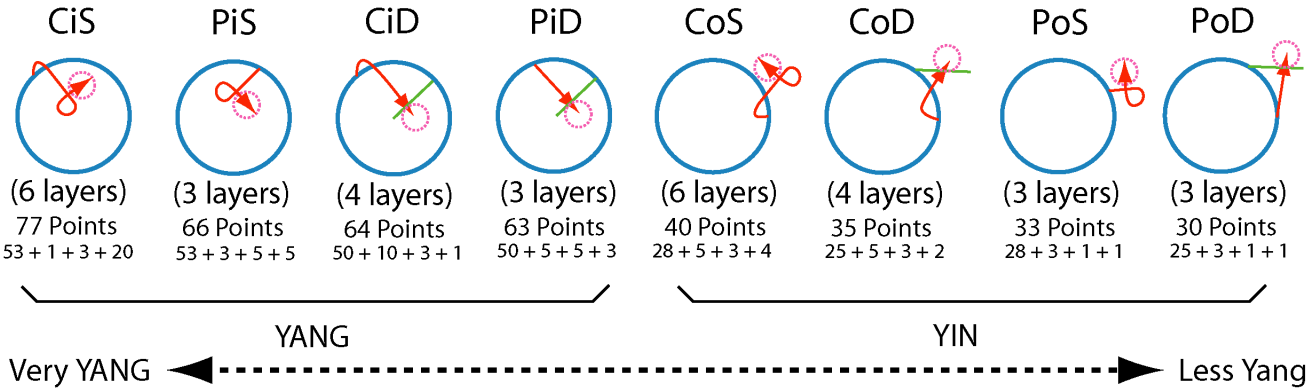
So there are 8 Basic Sets: PiD, PiS, PoD, PoS, CiD, CiS, CoD and CoS
Each will have a proper CATALAN TREE, each starting from the same Membrane!





We look now deeper into the differences in internal layers in each Set.
We judge three parameters to be are relevant.
(1) The number of layers: We postulated before that the more layers occure, the more dense the holon is.
(2) Position of the holon: Internal holons are more Yang than outside holons, because they are more compressed.
(3) The origin of the internal layers (parents): Holon layers from the inside have a more Yang structure (backbone).
(4) A Self-pelastration (S) is a yanger connection than a Direct connection (D).

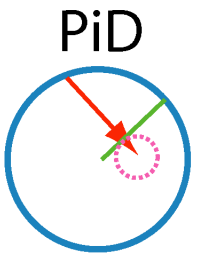
Arbitrary we can give some points, i.e. 50 points for an inside holon, 25 points for an outside holon, 5 points per yang-membrane, 3 points for a pure membrane layer, 1 point per yin-membrane layer and 3 points for a self-pelastration.
This give us next Yang (Yin) Scale for the basic holon types:



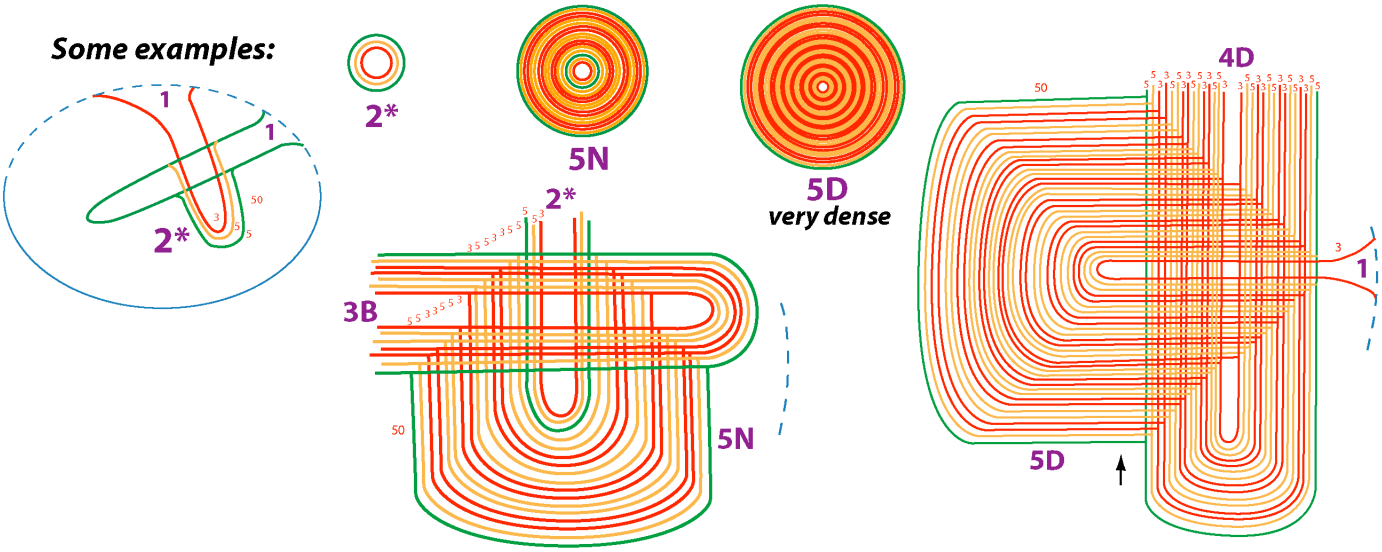
The PiD Set

In next pages I will examine topologically the first 22 steps of the SET **PiD**. This means we start with the basic membrane (the Potency) give then the following 21 possible holons which all are Pure Inside the membrane sphere and positioned in the Set that started with a Direct pelastration.

We will see that each of these holons has a proper layering structure (limensions). That means that they each vibrates in a unique way. Just like letters of an alphabet. Since each holon can make a pelastration with the original membrane we get a number of combinations as given by the Catalan numbers, which are higher than normal permutations.



Some examples:



PELASTRATIC DEVELOPMENT OF HOLONS

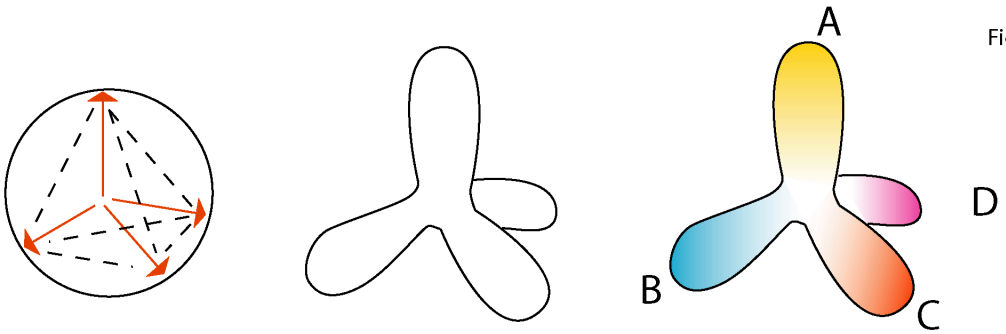


Fig. 1

Starting from an unbreakable and almost infinite stretchable membrane several zones are created. These peaks can penetrate each other. Since the membrane is unbreakable a new multi-layered zone is formed, and we call that a HOLON. A holon contains always the values of the previous zones which created him. Holons can interact and combine to sub-holons. Under influence of internal oscillations between the layers new inside sub-holons can be made. This can also happen due external outside holons.

1. PELASTRATION (a penetration through an unbreakable but super-elastic membrane) creates a HOLON:
When Peak A 'pelastrates' Peak B a new double-layered holon is created.
Here Peak A is the active peak and B the passive peak.

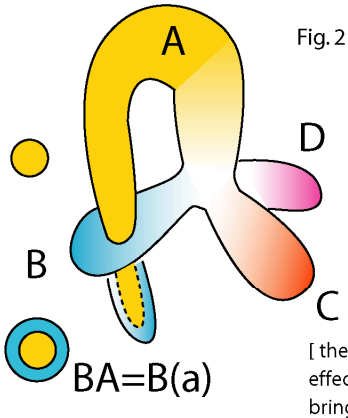


Fig. 2

[these two layers create now secondary effects: based on friction. Inside oscillations bring the conditions for resonance, thermodynamics, EM and radiation]

Important remarks:
Each peak keeps it's membrane.
Thus between the two dimensions in BA is a double membrane.
We call this Dimensional Isolation.
This warrants the Historic Integrity of the holon and all further following holons

In following designs we will NOT draw such double internal membranes.

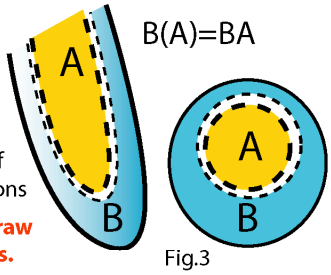


Fig.3

2. THE CREATION OF SUB-HOLONS

We focus now ***only*** on the HOLON B(a).
The holon B(a) can create new sub-holons

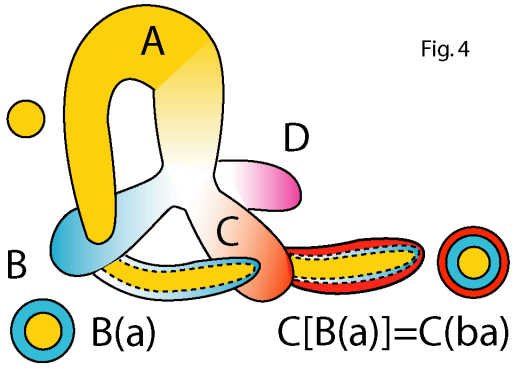


Fig. 4

B(a)

SOME OTHER POSSIBILITIES OF
B(a) as ***ACTIVE*** PEAK

Fig. 5

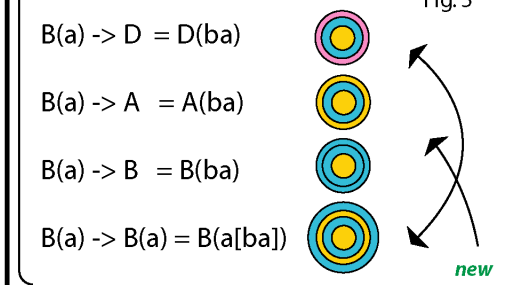


Fig. 6

But there are much more complex combinations possible.
In this design: The active C(ba) can pelastrate the passive B(a)
what gives: C(ba) -> B(a) = B(a[c(ba)]

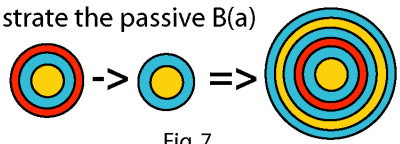
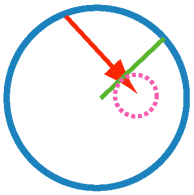


Fig. 7

Overview of the holons of the PiD Set



The images on this page show the building up of 22 unique holons.

The membrane (1) is the Totality and has building potency. It contains all holons which are SUB-SETS. The membrane is the first Catalan Number Level.
The membrane is NOT a Holon!

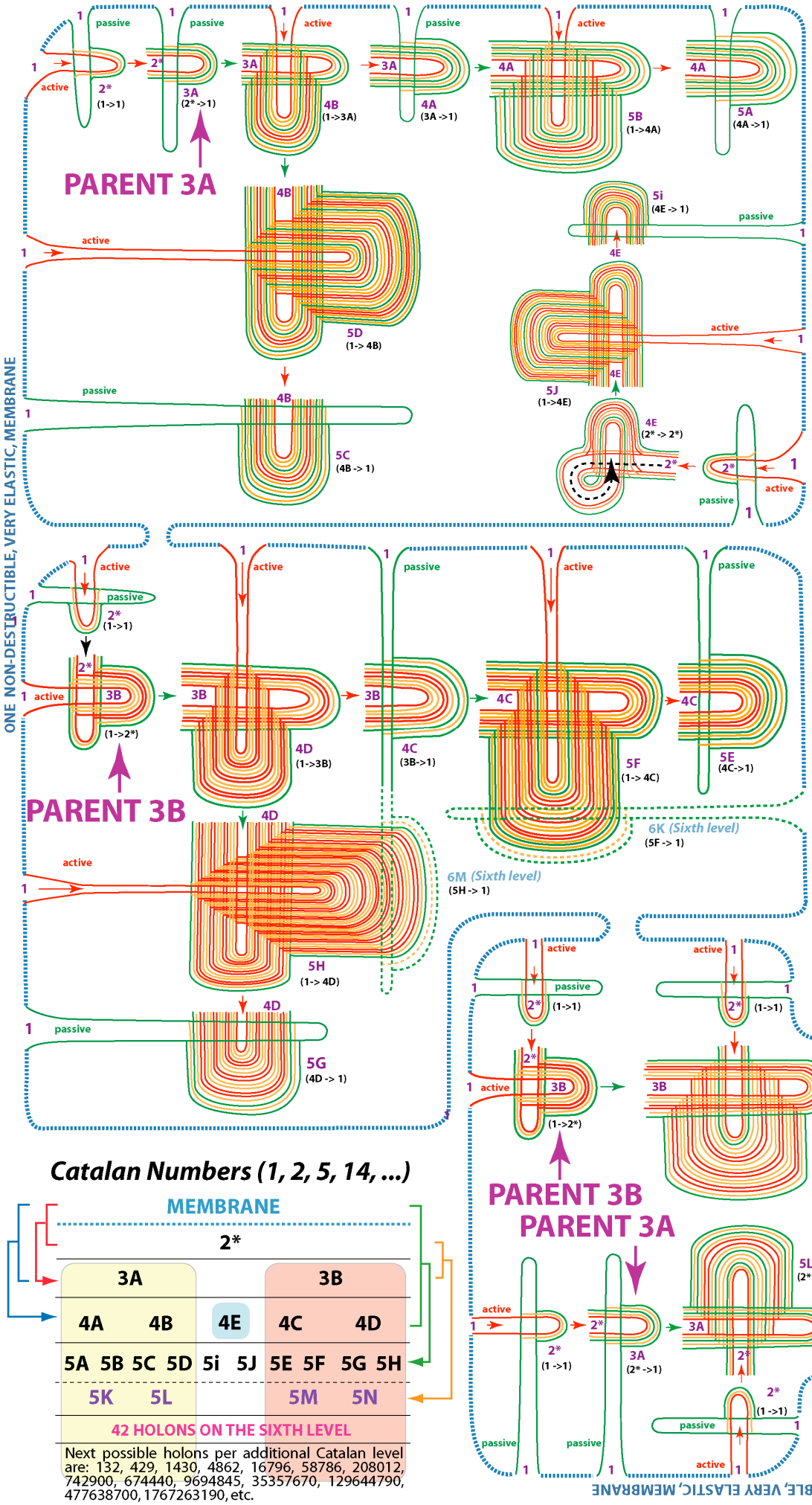
The Membrane can make on it's surface a holon by joining two of it's dynamic parts. Such basic type of holon is called 2*. It consists of two parents which co-exist. This is the second Catalan level.

Each of the type 2* holons can combine with the membrane (1) in TWO ways to make new holons. 3A (2* pelastrates 1) and 3B (2* is pelastrated by 1). This is the third Catalan level.

3A and 3B can combine also with the membrane, creating that way 5 new, more complex, holons. This are 4A, 4B, 4C, 4D and 4E.
They are on Catalan level 4.

The next level has 14 different, unique possibilities. 10 originate of combinations of the membrane with the 5 holons of the 4 level, and 4 are combinations of 2* and 3A and 3B. These 14 make Catalan level 5.

The membrane has created here 22 different type of holons (1 + 2 + 5 + 14).

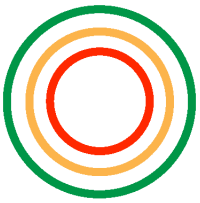


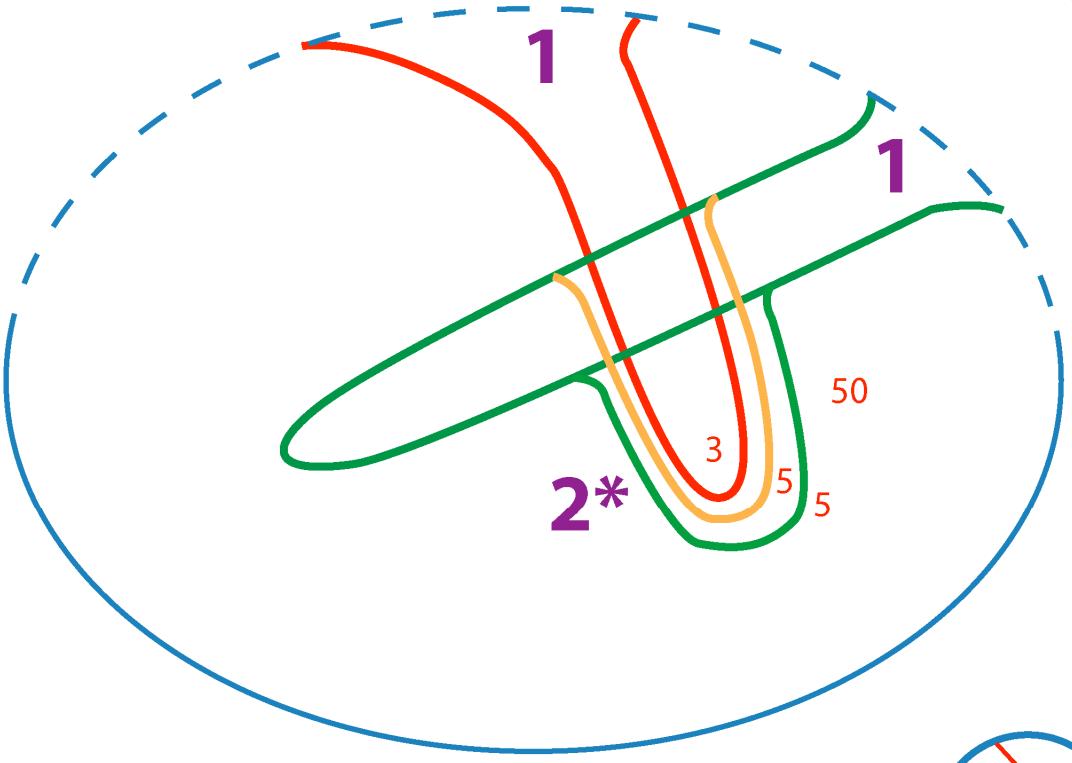
Catalan Numbers (1, 2, 5, 14, ...)

Next possible holons per additional Catalan level are: 132, 429, 1430, 4862, 16796, 58786, 208012, 742900, 674440, 9694845, 35357670, 129644790, 477638700, 1767263190, etc.

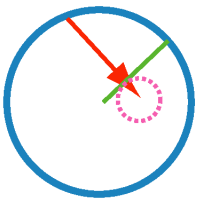
PiD SET 	REF.: 2*	ACTION 1-> 1	Yang Value **63**
CATALAN LEVEL : 2	# Layers in Holon: 3		

Transverse Cut



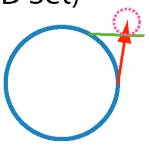


REMARKS: THIS IS THE FIRST HOLON ON THE PURE INSIDE (PiD Set).
This holon is on Level 2 of the Catalan numbers.
On Level 2 is only one possible combination.



Pure inside Direct

AN IDENTICAL HOLON CAN BE ON THE OUTSIDE OF THE MEMBRANE (PoD Set)
The PoD 2* Holon will have a Yang Value of 30.



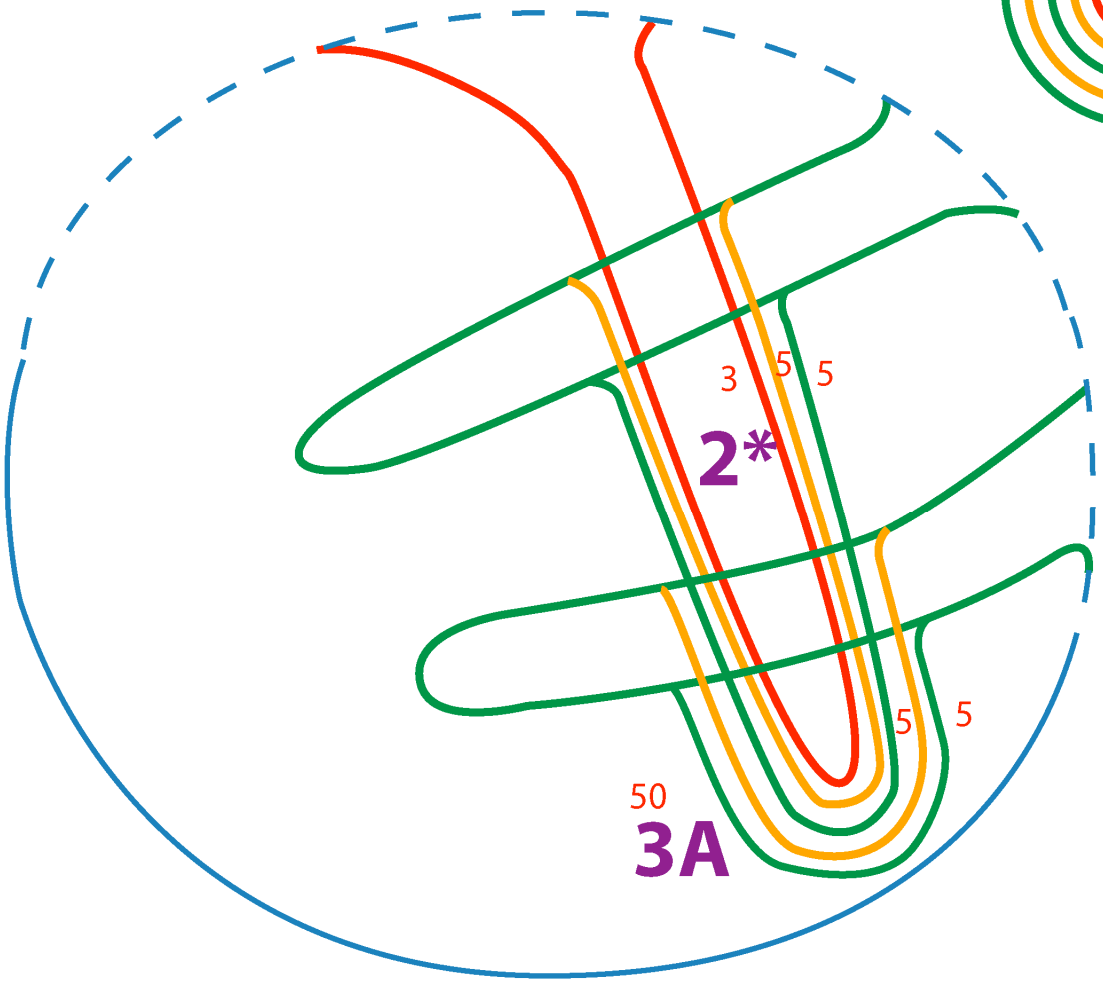
Pure outside Direct

Legend: BLUE: NON-BREAKABLE SPACE-TIME MEMBRANE
RED : ACTIVE PART (Backbone, Center, Pushing, Yang)
GREEN : PASSIVE PART (Appearance, Outside, Yin)
ORANGE : PASSIVE PART (Encapsuled Green)
Colors are just indications. All should be blue since all is the same membrane.

Holon **Yang** Value Scale:
Inside holon: 50 points
Outside holon: 25 points
Per Yang-orgin layer: 5 pts
Per Pure membrane layer: 3 pts
Per Yin-origin layer: 1 pt
Per Self-Pelastration: 3 pts

PiD SET	REF.: 3A	ACTION	Yang Value
		2* -> 1	73
CATALAN LEVEL : 3	# Layers in Holon: 5		

Transverse Cut



REMARKS: THIS IS ONE OF THE TWO HOLONS OF CATALAN LEVEL 3 ON THE PURE INSIDE. THIS IS 3A.
THERE IS ALSO ANOTHER POSSIBILIY TO CONNECT (SEE NEXT 3B)

AN IDENTICAL HOLON CAN BE ON THE OUTSIDE OF THE MEMBRANE (PoD-Set).
That holon 3A will have the Yang Value of 32.

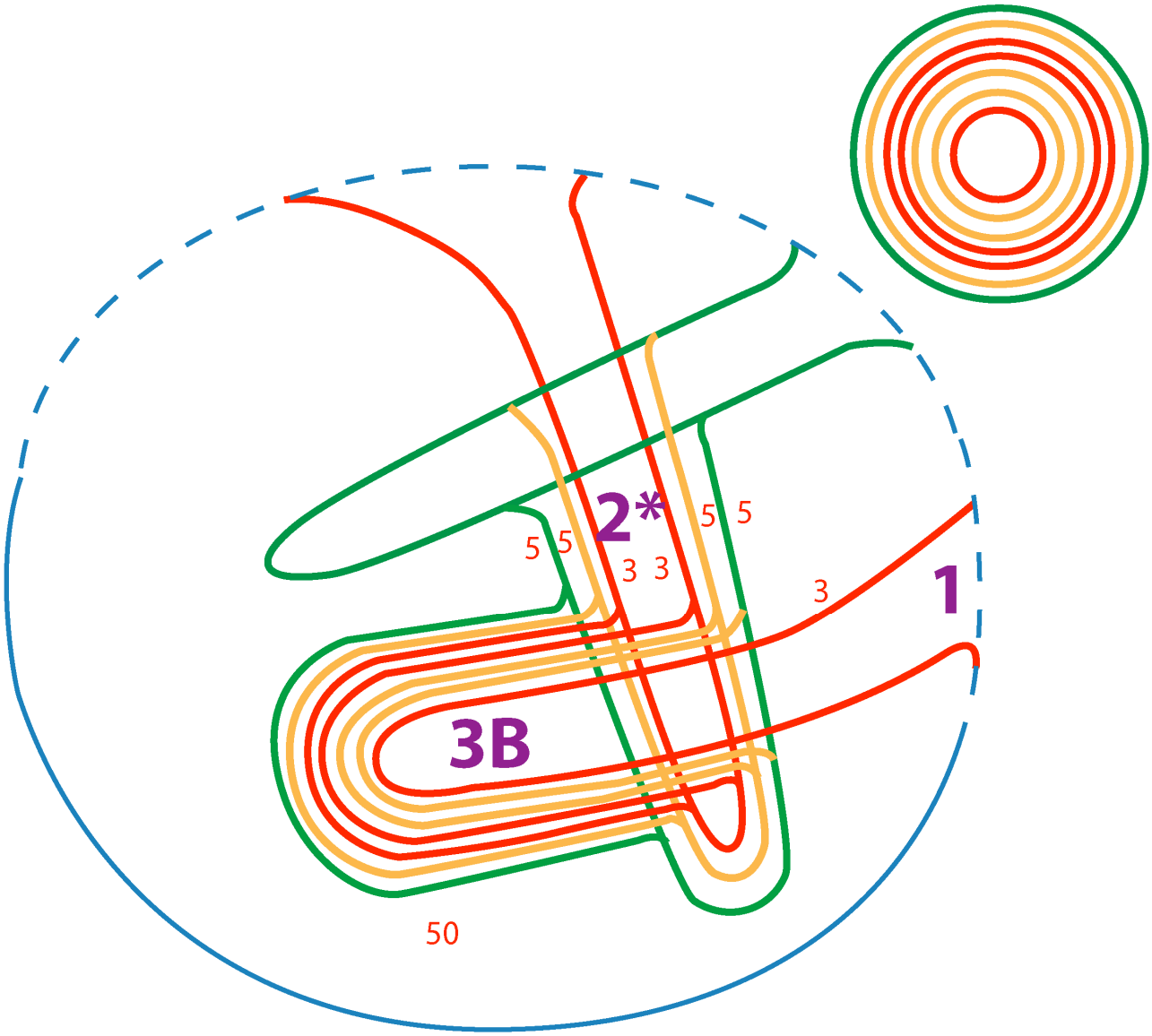
Legend:
BLUE: NON-BREAKABLE SPACE-TIME MEMBRANE
RED : ACTIVE PART (Backbone, Center, Pushing, Yang)
GREEN : PASSIVE PART (Appearance, Outside, Yin)
ORANGE : PASSIVE PART OF ACTIVE
Colors are just indications. All should be blue since all is the same membrane.

Holon **Yang** Value Scale:

Inside holon: 50 points
Outside holon: 25 points
Per Yang-orgin layer: 5 pts
Per Pure membrane layer: 3 pts
Per Yin-origin layer: 1 pt
Per Self-Pelastration: 3 pts

PiD SET	REF.: 3B	ACTION	Yang Value
		1 -> 2*	79
CATALAN LEVEL : 3	# Layers in Holon: 7		

Transverse Cut



REMARKS: THIS IS ONE OF THE TWO POSSIBLE HOLONS ON THE PURE INSIDE ON LEVEL 3.
THIS THE MOST YANG HOLON OF LEVEL 3, WITH THE MOST INSIDE LIMENSIONS (LAYERS).

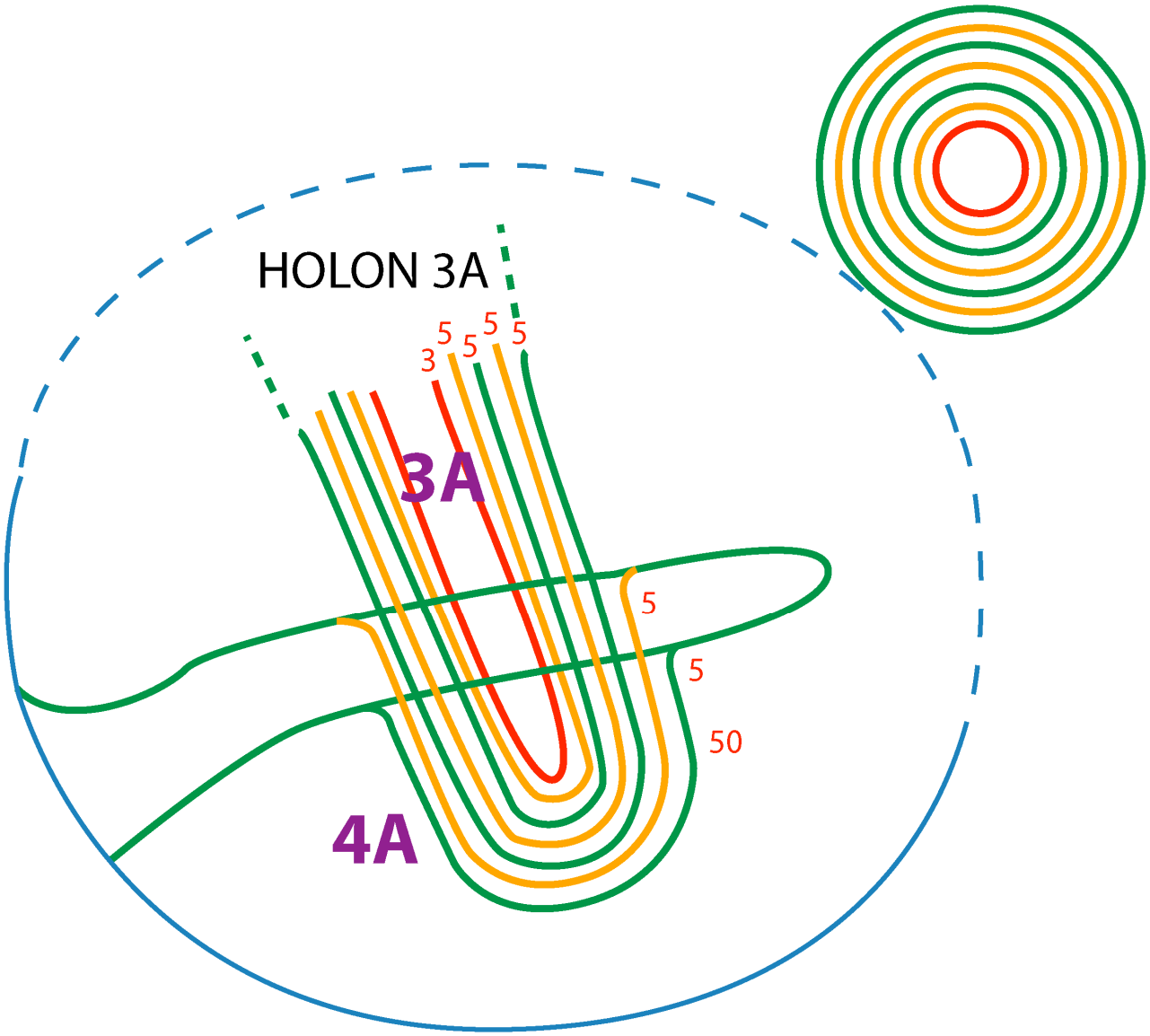
AN IDENTICAL HOLON CAN BE ON THE OUTSIDE OF THE MEMBRANE (in the PoD-Set)
That PoD holon 3B will have a Yang value of 38.

Legend:
BLUE: NON-BREAKABLE SPACE-TIME MEMBRANE
RED : ACTIVE PART (Backbone, Center, Pushing, Yang)
GREEN : PASSIVE PART (Appearance, Outside, Yin)
ORANGE : PASSIVE PART (Encapsuled Green)
Colors are just indications. All should be blue since all is the same membrane.

Holon **Yang** Value Scale:
Inside holon: 50 points
Outside holon: 25 points
Per Yang-orgin layer: 5 pts
Per Pure membrane layer: 3 pts
Per Yin-origin layer: 1 pt
Per Self-Pelastration: 3 pts

PiD SET	REF.: 4A	ACTION	Yang Value
		3A -> 1	83
CATALAN LEVEL : 4	# Layers in Holon: 7		

Transverse Cut



REMARKS: THIS IS ONE OF THE FIVE POSSIBLE HOLONS ON THE PURE INSIDE ON LEVEL 4.
THIS THE LESS YANG HOLON OF LEVEL 4, WITH THE LESS INSIDE LIMENSIONS (LAYERS).

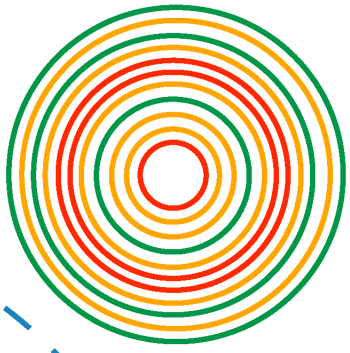
AN IDENTICAL HOLON CAN BE ON THE OUTSIDE OF THE MEMBRANE (in the PoD-Set)
That PoD holon 4D will have a Yang value of 34.

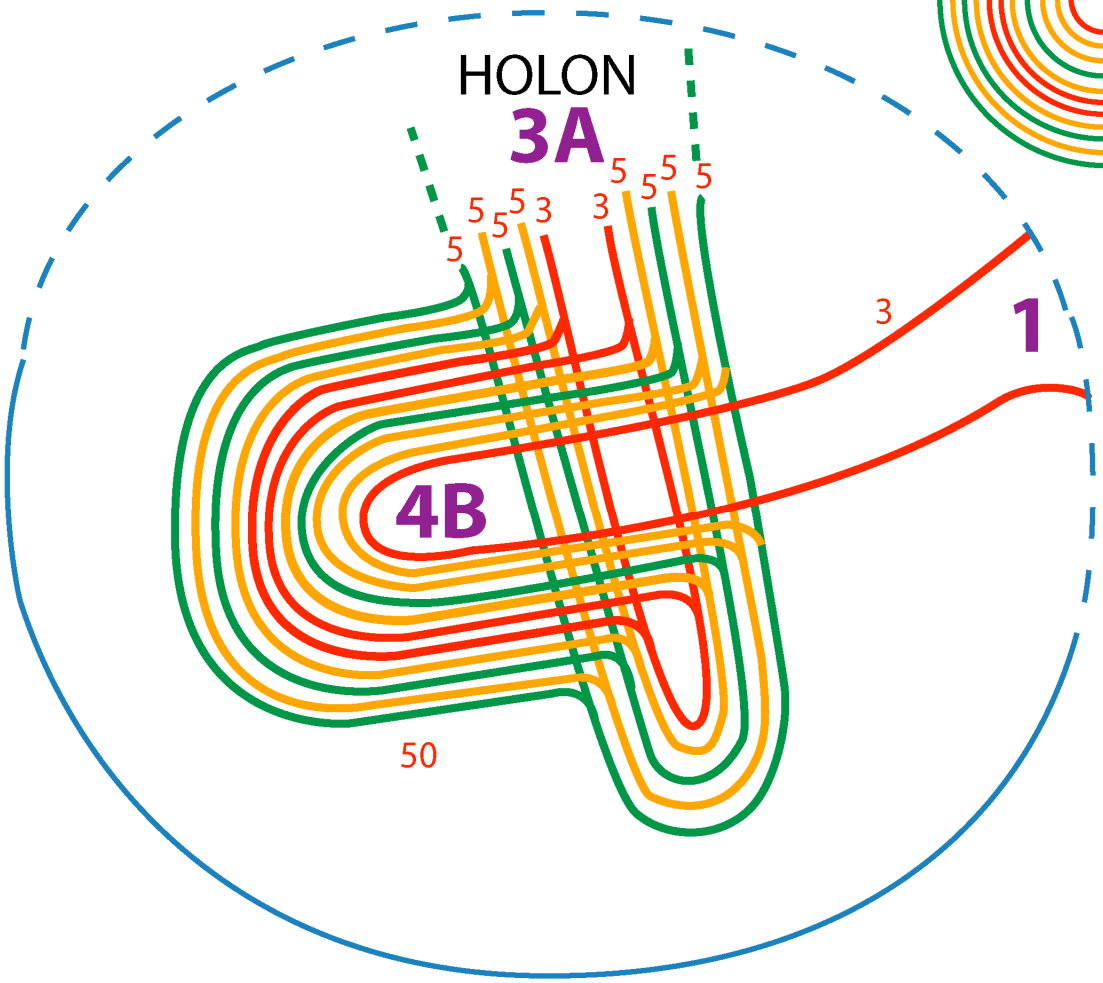
Legend:
BLUE: NON-BREAKABLE SPACE-TIME MEMBRANE
RED : ACTIVE PART (Backbone, Center, Pushing, Yang)
GREEN : PASSIVE PART (Appearance, Outside, Yin)
ORANGE : PASSIVE PART OF ACTIVE
Colors are just indications. All should be blue since all is the same membrane.

Holon **Yang** Value Scale:
Inside holon: 50 points
Outside holon: 25 points
Per Yang-orgin layer: 5 pts
Per Pure membrane layer: 3 pts
Per Yin-origin layer: 1 pt
Per Self-Pelastration: 3 pts

PiD SET	REF.: 4B	ACTION	Yang Value
		1 -> 3A	99
CATALAN LEVEL : 4	# Layers in Holon: 11		

Transverse Cut





REMARKS: THIS IS ONE OF THE FIVE POSSIBLE HOLONS ON THE PURE INSIDE ON LEVEL 4.

AN IDENTICAL HOLON CAN BE ON THE OUTSIDE OF THE MEMBRANE (in the PoD-Set)
That PoD holon 4B will have a Yang value of 42.

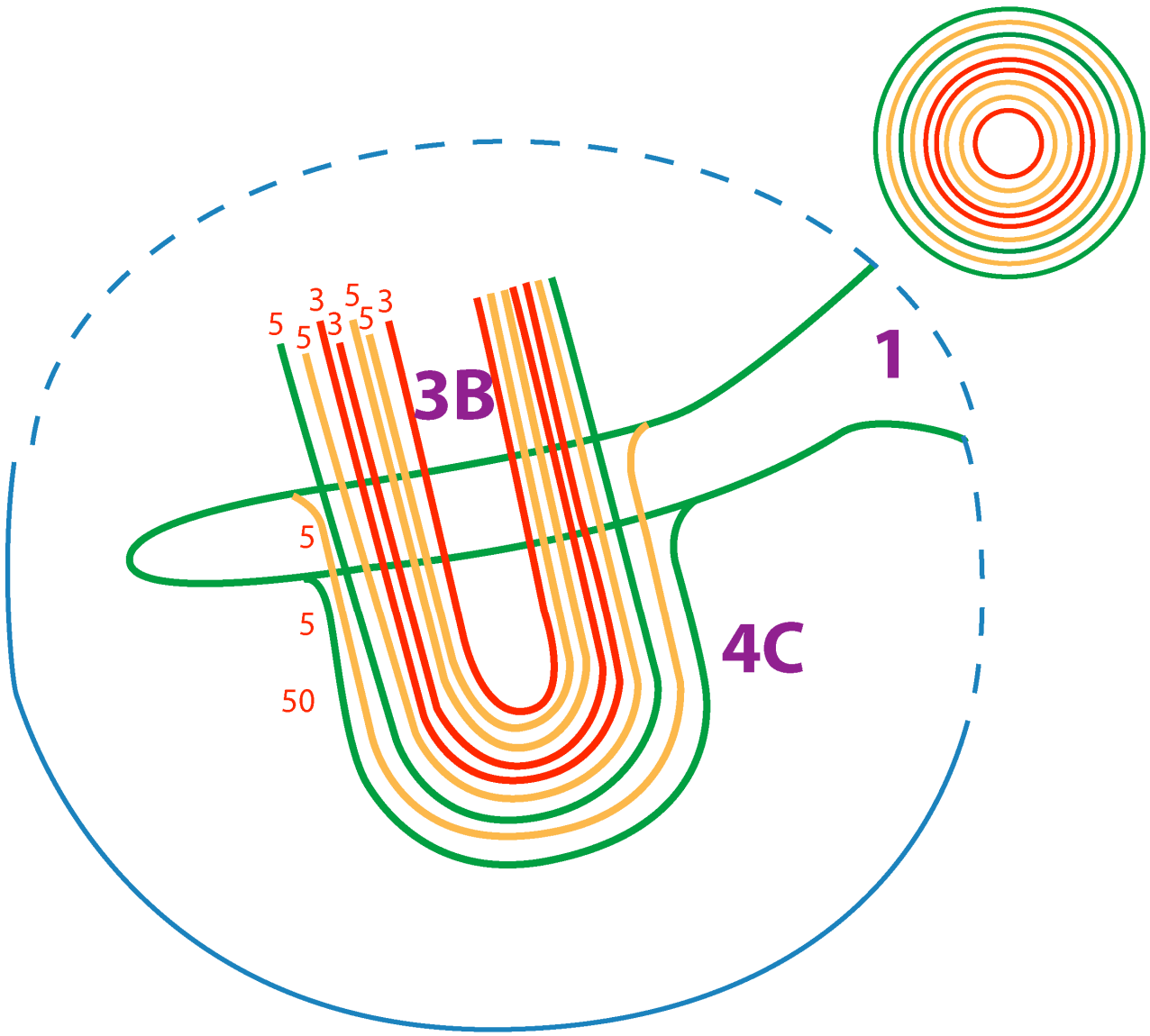
Legend:
BLUE: NON-BREAKABLE SPACE-TIME MEMBRANE
RED : ACTIVE PART (Backbone, Center, Pushing, Yang)
GREEN : PASSIVE PART (Appearance, Outside, Yin)
ORANGE : PASSIVE PART (Encapsuled Green)
Colors are just indications. All should be blue since all is the same membrane.

Holon **Yang** Value Scale:

Inside holon: 50 points
Outside holon: 25 points
Per Yang-orgin layer: 5 pts
Per Pure membrane layer: 3 pts
Per Yin-origin layer: 1 pt
Per Self-Pelastration: 3 pts

PiD SET	REF.: 4C	ACTION	Yang Value
		3B -> 1	89
CATALAN LEVEL : 4	# Layers in Holon: 9		

Transverse Cut



REMARKS: THIS IS ONE OF THE FIVE POSSIBLE HOLONS ON THE PURE INSIDE ON LEVEL 4..

AN IDENTICAL HOLON CAN BE ON THE OUTSIDE OF THE MEMBRANE (in the PoD-Set)
That PoD holon 4C will have a Yang value of 40.

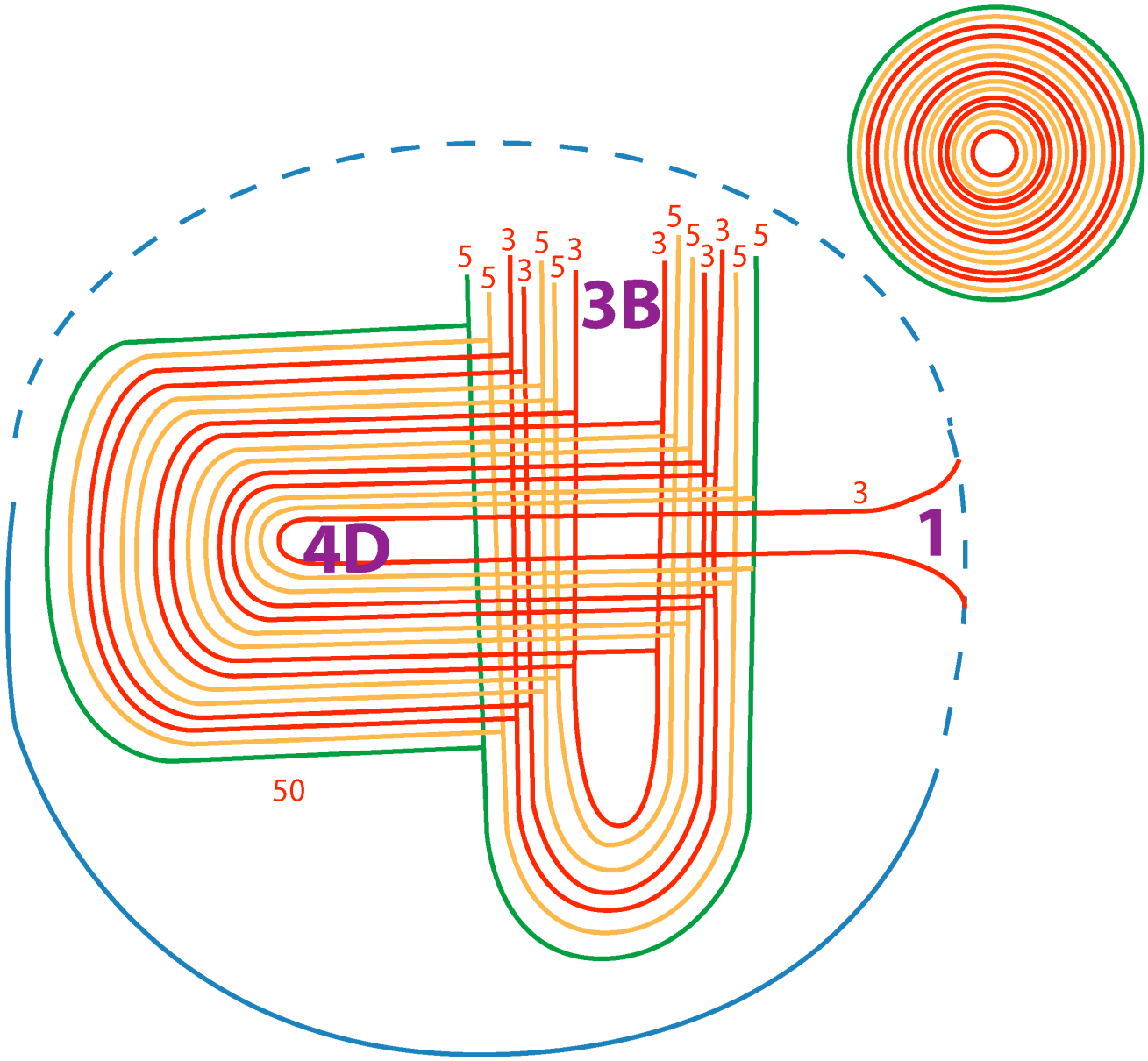
Legend:
BLUE: NON-BREAKABLE SPACE-TIME MEMBRANE
RED : ACTIVE PART (Backbone, Center, Pushing, Yang)
GREEN : PASSIVE PART (Appearance, Outside, Yin)
ORANGE : PASSIVE PART (Encapsuled Green)
Colors are just indications. All should be blue since all is the same membrane.

Holon **Yang** Value Scale:

Inside holon: 50 points
Outside holon: 25 points
Per Yang-orgin layer: 5 pts
Per Pure membrane layer: 3 pts
Per Yin-origin layer: 1 pt
Per Self-Pelastration: 3 pts

PiD SET	REF.: 4D	ACTION	Yang Value
		1 -> 3B	111
CATALAN LEVEL : 4	# Layers in Holon: 15		

Transverse Cut



REMARKS: THIS IS ONE OF THE FIVE POSSIBLE HOLONS ON THE PURE INSIDE ON LEVEL 4.
THIS THE MOST YANG HOLON OF LEVEL 4, WITH THE MOST INSIDE LIMENSIONS (LAYERS).

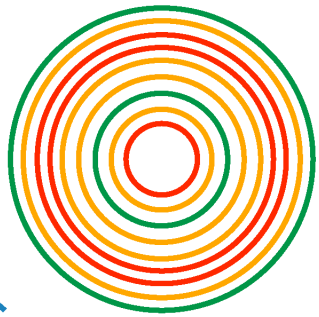
AN IDENTICAL HOLON CAN BE ON THE OUTSIDE OF THE MEMBRANE (in the PoD-Set)
That PoD holon 4D will have a Yang value of 54.

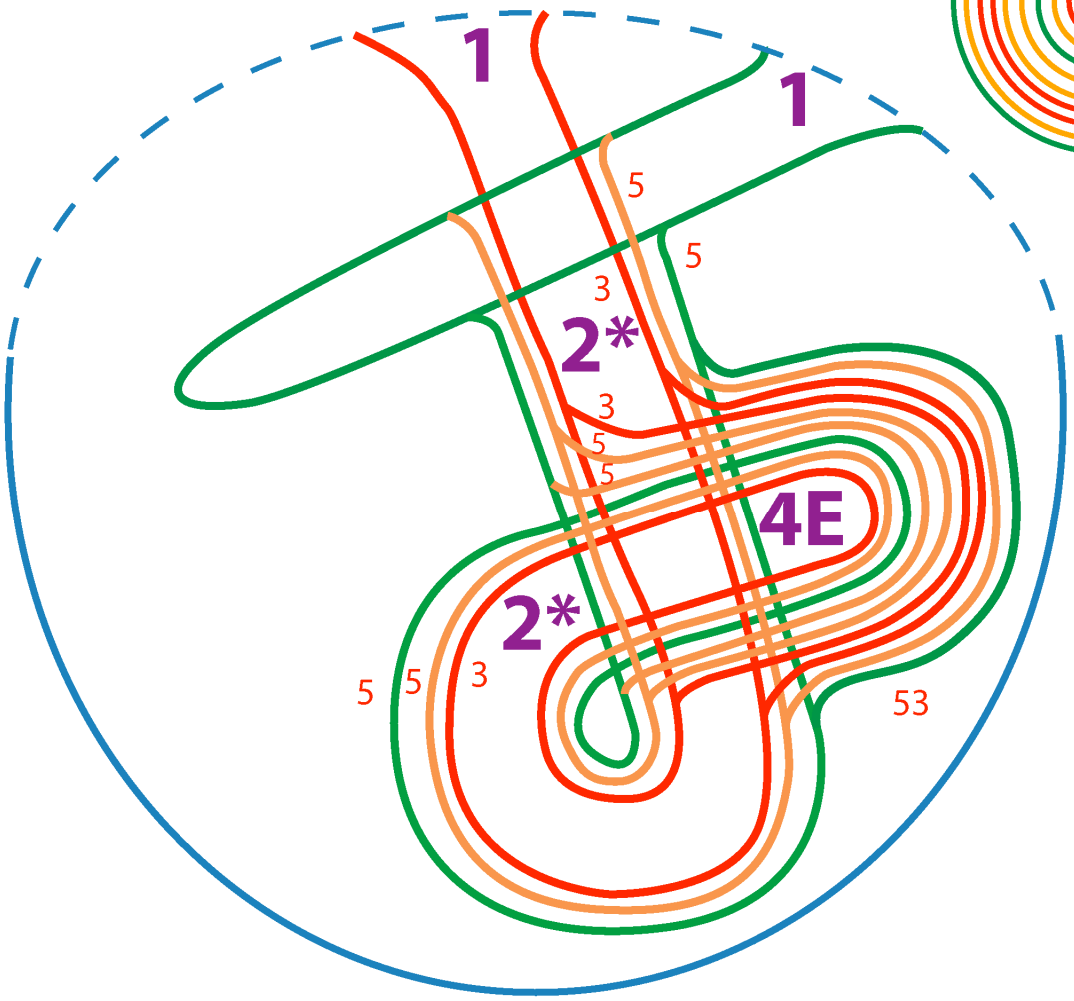
Legend:
BLUE: NON-BREAKABLE SPACE-TIME MEMBRANE
RED : ACTIVE PART (Backbone, Center, Pushing, Yang)
GREEN : PASSIVE PART (Appearance, Outside, Yin)
ORANGE : PASSIVE PART (Encapsuled Green)
Colors are just indications. All should be blue since all is the same membrane.

Holon **Yang** Value Scale:
Inside holon: 50 points
Outside holon: 25 points
Per Yang-orgin layer: 5 pts
Per Pure membrane layer: 3 pts
Per Yin-origin layer: 1 pt
Per Self-Pelastration: 3 pts

PiD SET	REF.: 4E	ACTION	Yang Value
		2*-> 2*	92
CATALAN LEVEL : 4	# Layers in Holon: 9		

Transverse Cut





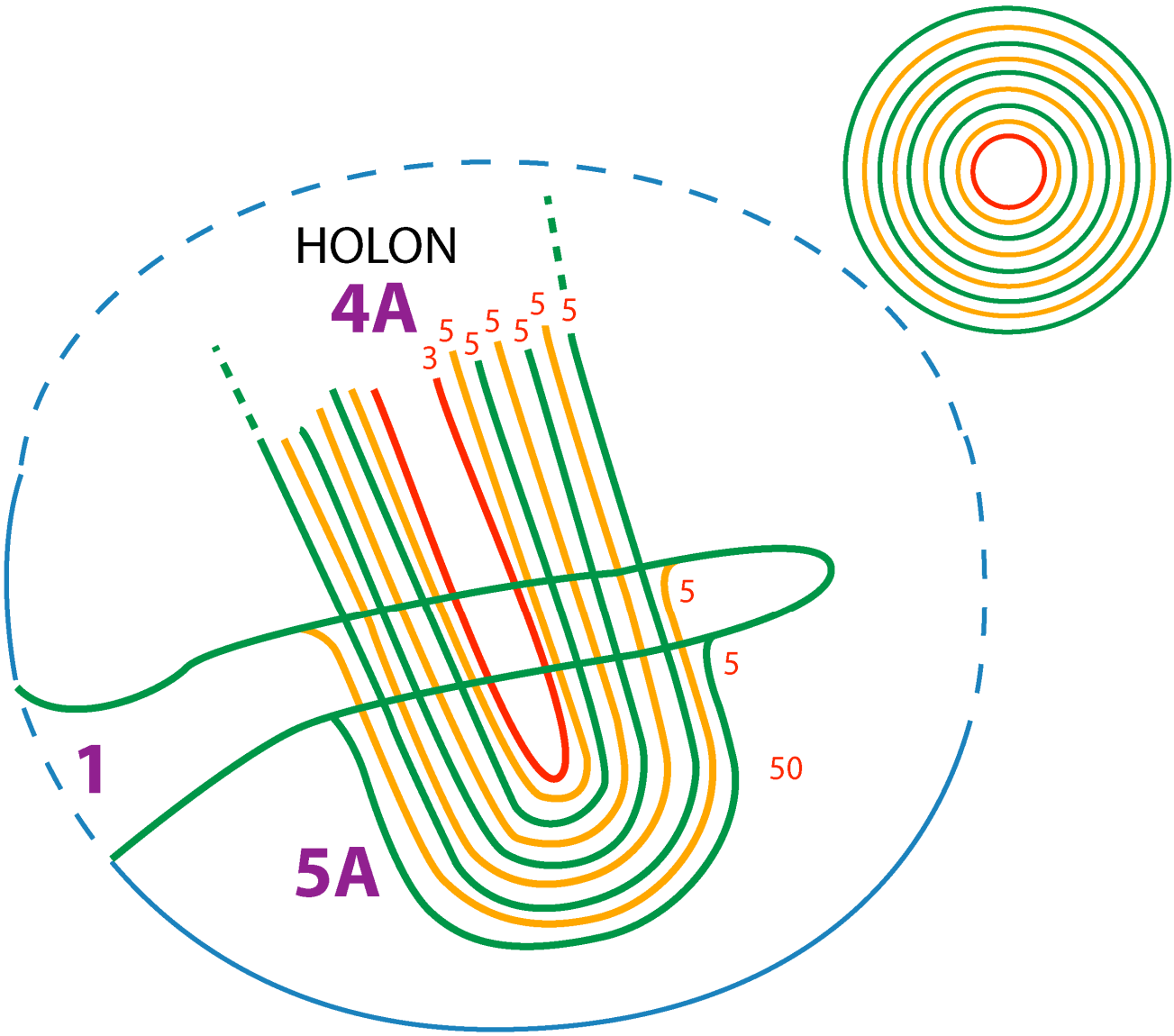
REMARKS: THIS IS ONE OF THE FIVE POSSIBLE HOLONS ON THE PURE INSIDE ON LEVEL 4.
THIS IS A SELF-PELATRATION.

AN IDENTICAL HOLON CAN BE ON THE OUTSIDE OF THE MEMBRANE (in the PoD-Set)
That PoD holon 4E will have a Yang value of 43.

Legend:	Holon **Yang** Value Scale:
BLUE: NON-BREAKABLE SPACE-TIME MEMBRANE RED : ACTIVE PART (Backbone, Center, Pushing, Yang) GREEN : PASSIVE PART (Appearance, Outside, Yin) ORANGE : PASSIVE PART (Encapulsed Green) Colors are just indications. All should be blue since all is the same membrane.	Inside holon: 50 points Outside holon: 25 points Per Yang-orgin layer: 5 pts Per Pure membrane layer: 3 pts Per Yin-origin layer: 1 pt Per Self-Pelastration: 3 pts

PiD SET	REF.: 5A	ACTION	Yang Value
		4A -> 1	93
CATALAN LEVEL : 5	# Layers in Holon: 9		

Transverse Cut



REMARKS: THIS IS ONE OF THE FOURTEEN POSSIBLE HOLONS ON THE PURE INSIDE ON LEVEL 5.

AN IDENTICAL HOLON CAN BE ON THE OUTSIDE OF THE MEMBRANE (in the PoD-Set)
That PoD holon 5A will have a Yang value of 36.

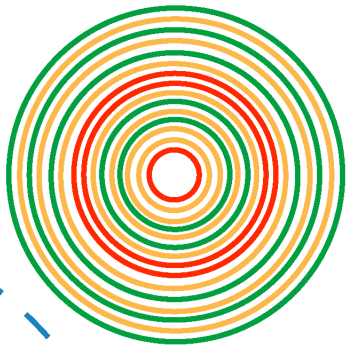
Legend:
BLUE: NON-BREAKABLE SPACE-TIME MEMBRANE
RED : ACTIVE PART (Backbone, Center, Pushing, Yang)
GREEN : PASSIVE PART (Appearance, Outside, Yin)
ORANGE : PASSIVE PART (Encaplsuled Green)
Colors are just indications. All should be blue since all is the same membrane.

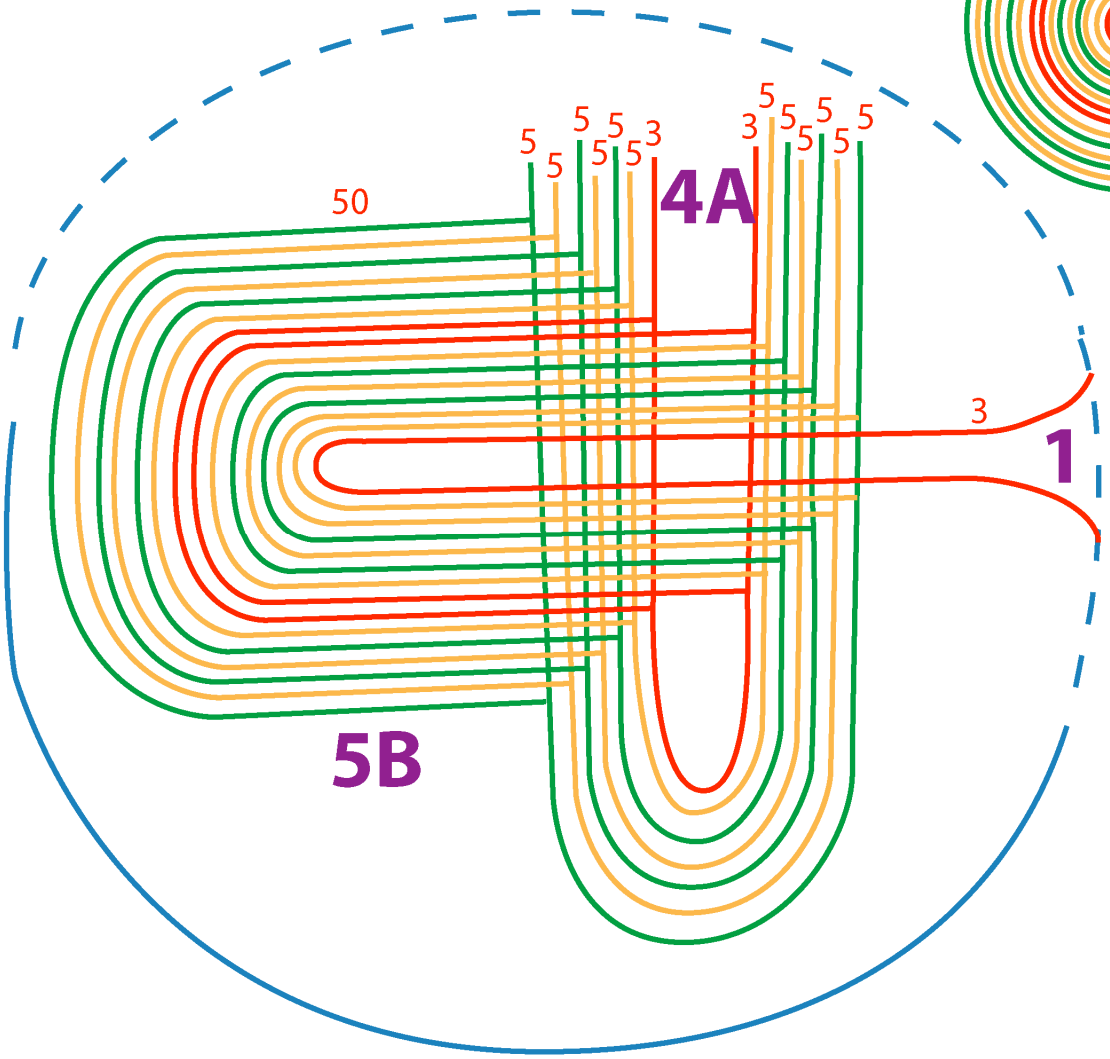
Holon **Yang** Value Scale:

Inside holon: 50 points
Outside holon: 25 points
Per Yang-orgin layer: 5 pts
Per Pure membrane layer: 3 pts
Per Yin-origin layer: 1 pt
Per Self-Pelastration: 3 pts

PiD SET	REF.: 5B	ACTION	Yang Value
		1 -> 4A	116
CATALAN LEVEL : 5	# Layers in Holon: 15		

Transverse Cut





REMARKS: THIS IS ONE OF THE FOURTEEN POSSIBLE HOLONS ON THE PURE INSIDE ON LEVEL 5.

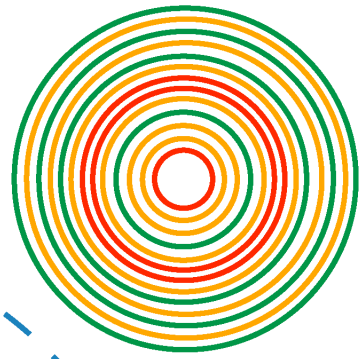
AN IDENTICAL HOLON CAN BE ON THE OUTSIDE OF THE MEMBRANE (in the PoD-Set)
That PoD holon 5B will have a Yang value of 43.

Legend:
BLUE: NON-BREAKABLE SPACE-TIME MEMBRANE
RED : ACTIVE PART (Backbone, Center, Pushing, Yang)
GREEN : PASSIVE PART (Appearance, Outside, Yin)
ORANGE : PASSIVE PART (Encapsuled Green)
Colors are just indications. All should be blue since all is the same membrane.

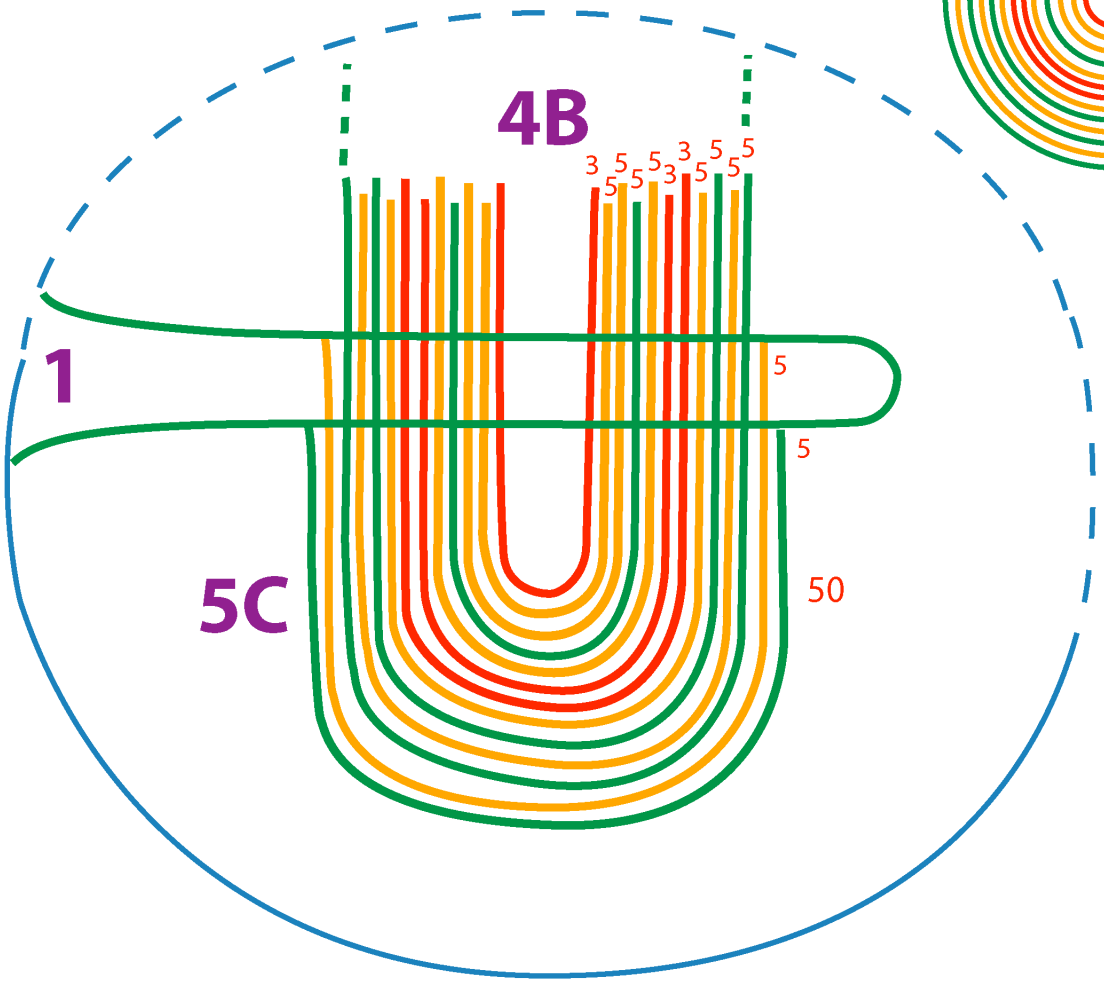
Holon **Yang** Value Scale:
Inside holon: 50 points
Outside holon: 25 points
Per Yang-orgin layer: 5 pts
Per Pure membrane layer: 3 pts
Per Yin-origin layer: 1 pt
Per Self-Pelastration: 3 pts

PiD SET	REF.: 5C	ACTION	Yang Value
		4B -> 1	109
CATALAN LEVEL : 5	# Layers in Holon: 13		

Transverse Cut



HOLON



REMARKS: THIS IS ONE OF THE FOURTEEN POSSIBLE HOLONS ON THE PURE INSIDE ON LEVEL 5.

AN IDENTICAL HOLON CAN BE ON THE OUTSIDE OF THE MEMBRANE (in the PoD-Set)
That PoD holon 5A will have a Yang value of 44.

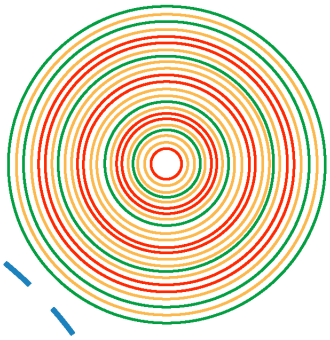
Legend:
BLUE: NON-BREAKABLE SPACE-TIME MEMBRANE
RED : ACTIVE PART (Backbone, Center, Pushing, Yang)
GREEN : PASSIVE PART (Appearance, Outside, Yin)
ORANGE : PASSIVE PART (Encapsuled Green)
Colors are just indications. All should be blue since all is the same membrane.

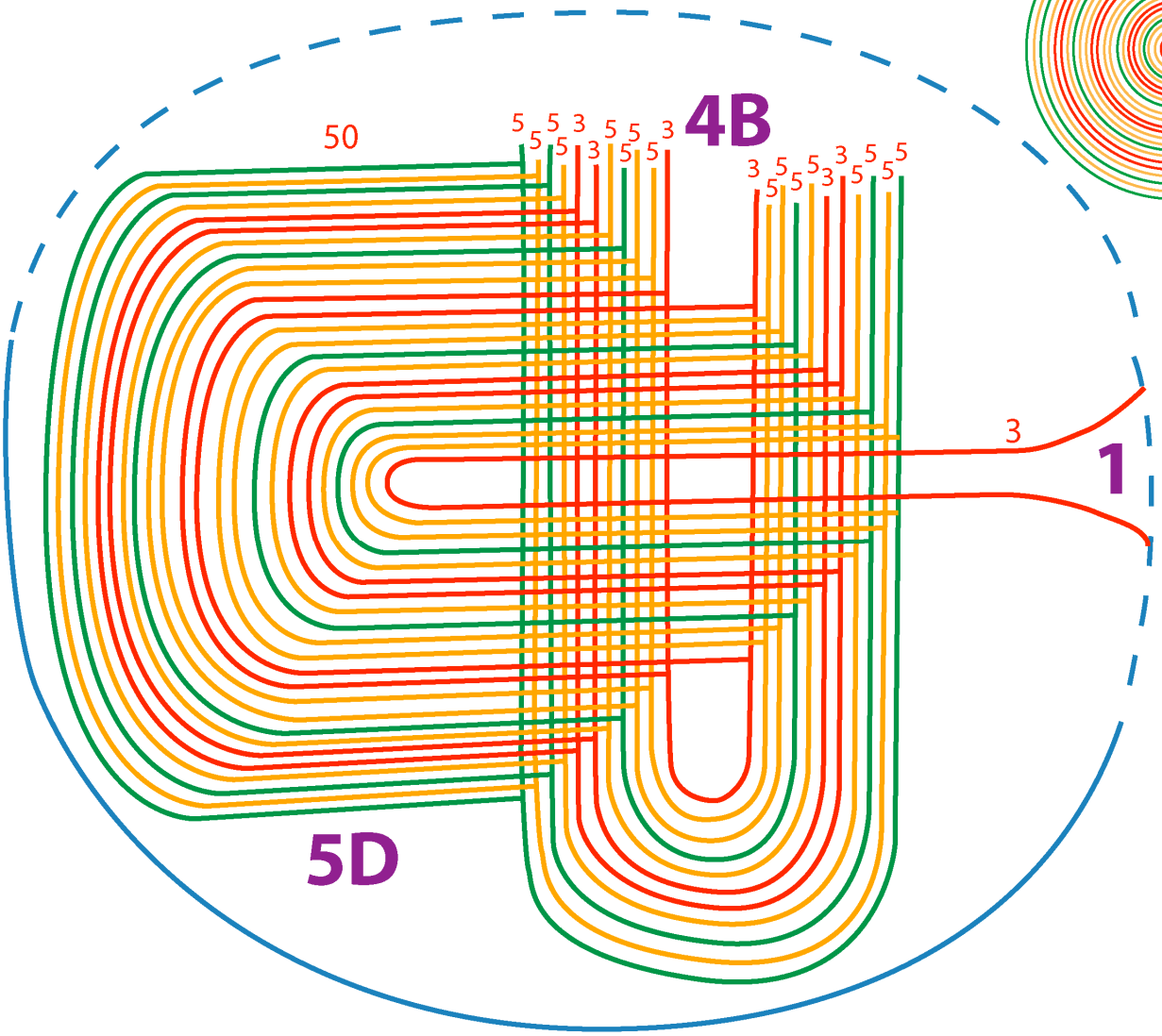
Holon **Yang** Value Scale:

Inside holon: 50 points
Outside holon: 25 points
Per Yang-orgin layer: 5 pts
Per Pure membrane layer: 3 pts
Per Yin-origin layer: 1 pt
Per Self-Pelastration: 3 pts

PiD SET	REF.: 5D	ACTION	Yang Value
		1 -> 4B	151
CATALAN LEVEL : 5	# Layers in Holon: 23		

Transverse Cut





REMARKS: THIS IS ONE OF THE FOURTEEN POSSIBLE HOLONS ON THE PURE INSIDE ON LEVEL 5.
This is the most Yang of the holons descending from 3A (2* ->1).

AN IDENTICAL HOLON CAN BE ON THE OUTSIDE OF THE MEMBRANE (in the PoD-Set)
That PoD holon 5D will have a Yang value of 62.

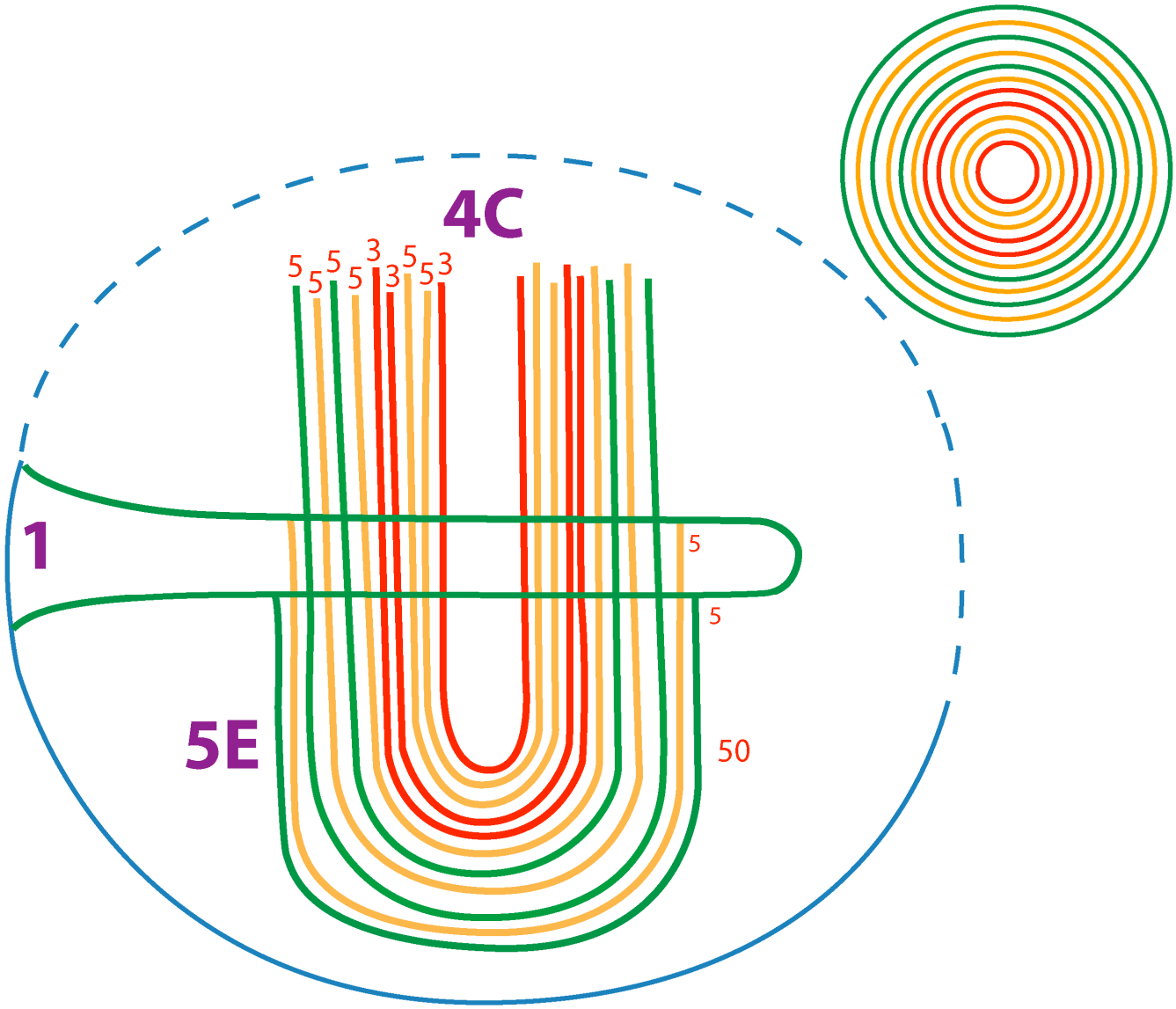
Legend:
BLUE: NON-BREAKABLE SPACE-TIME MEMBRANE
RED : ACTIVE PART (Backbone, Center, Pushing, Yang)
GREEN : PASSIVE PART (Appearance, Outside, Yin)
ORANGE : PASSIVE PART (Encapsuled Green)
Colors are just indications. All should be blue since all is the same membrane.

Holon **Yang** Value Scale:

Inside holon: 50 points
Outside holon: 25 points
Per Yang-orgin layer: 5 pts
Per Pure membrane layer: 3 pts
Per Yin-origin layer: 1 pt
Per Self-Pelastration: 3 pts

PiD SET	REF.: 5E	ACTION	Yang Value
		4C -> 1	99
CATALAN LEVEL : 5	# Layers in Holon: 11		

Transverse Cut



REMARKS: THIS IS ONE OF THE FOURTEEN POSSIBLE HOLONS ON THE PURE INSIDE ON LEVEL 5.

AN IDENTICAL HOLON CAN BE ON THE OUTSIDE OF THE MEMBRANE (in the PoD-Set)
That PoD holon 5E will have a Yang value of 42.

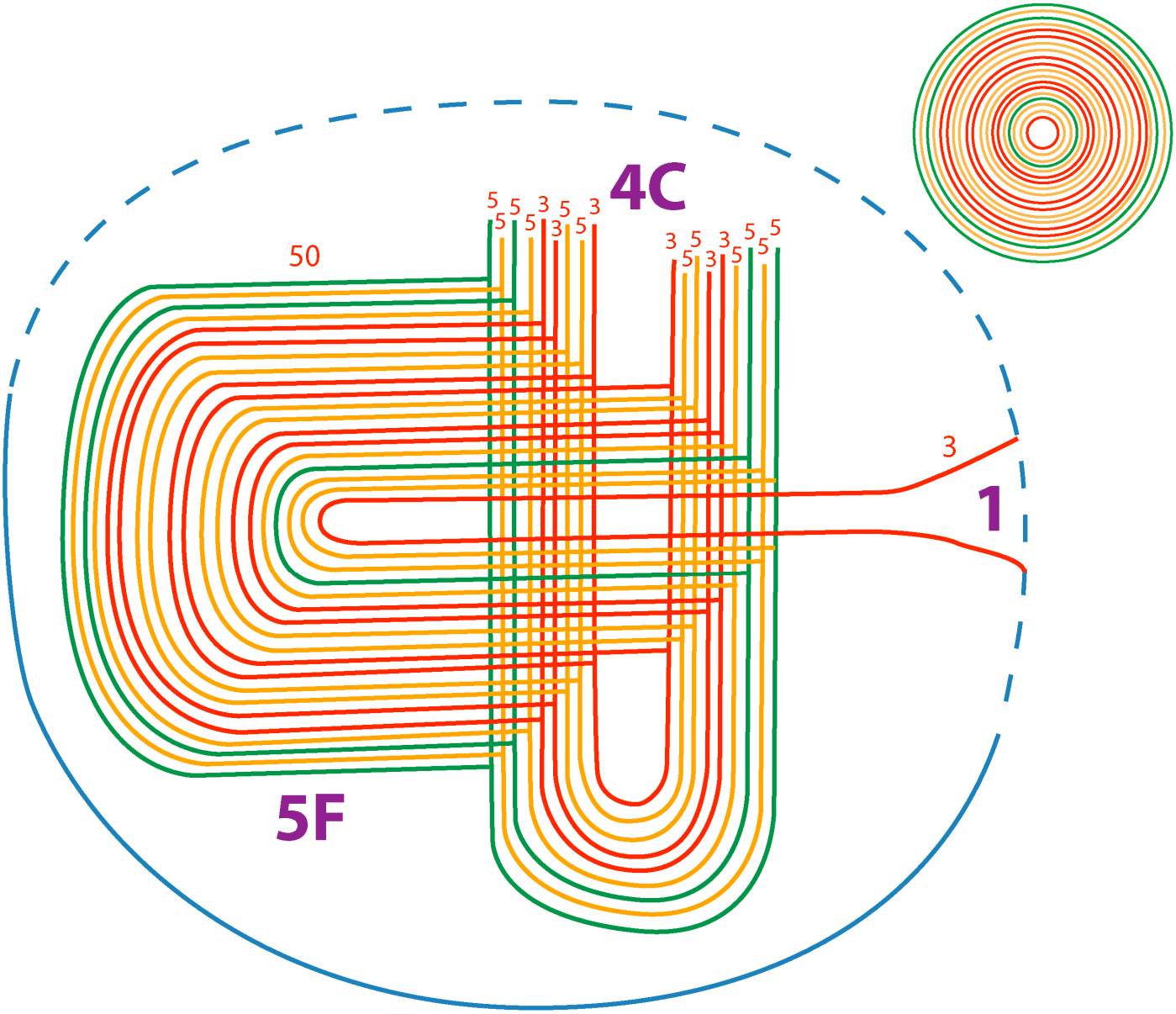
Legend:
BLUE: NON-BREAKABLE SPACE-TIME MEMBRANE
RED : ACTIVE PART (Backbone, Center, Pushing, Yang)
GREEN : PASSIVE PART (Appearance, Outside, Yin)
ORANGE : PASSIVE PART (Encapsuled Green)
Colors are just indications. All should be blue since all is the same membrane.

Holon **Yang** Value Scale:

Inside holon: 50 points
Outside holon: 25 points
Per Yang-orgin layer: 5 pts
Per Pure membrane layer: 3 pts
Per Yin-origin layer: 1 pt
Per Self-Pelastration: 3 pts

PiD SET	REF.: 5F	ACTION	Yang Value
		1 -> 4C	131
CATALAN LEVEL : 5	# Layers in Holon: 19		

Transverse Cut



REMARKS: THIS IS ONE OF THE FOURTEEN POSSIBLE HOLONS ON THE PURE INSIDE ON LEVEL 5.

AN IDENTICAL HOLON CAN BE ON THE OUTSIDE OF THE MEMBRANE (in the PoD-Set)
That PoD holon 5F will have a Yang value of 58.

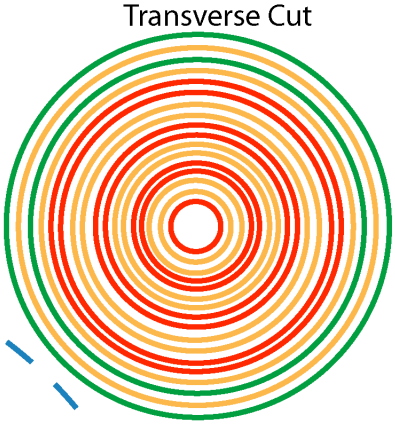
Legend:
BLUE: NON-BREAKABLE SPACE-TIME MEMBRANE
RED : ACTIVE PART (Backbone, Center, Pushing, Yang)
GREEN : PASSIVE PART (Appearance, Outside, Yin)
ORANGE : PASSIVE PART (Encapsuled Green)
Colors are just indications. All should be blue since all is the same membrane.

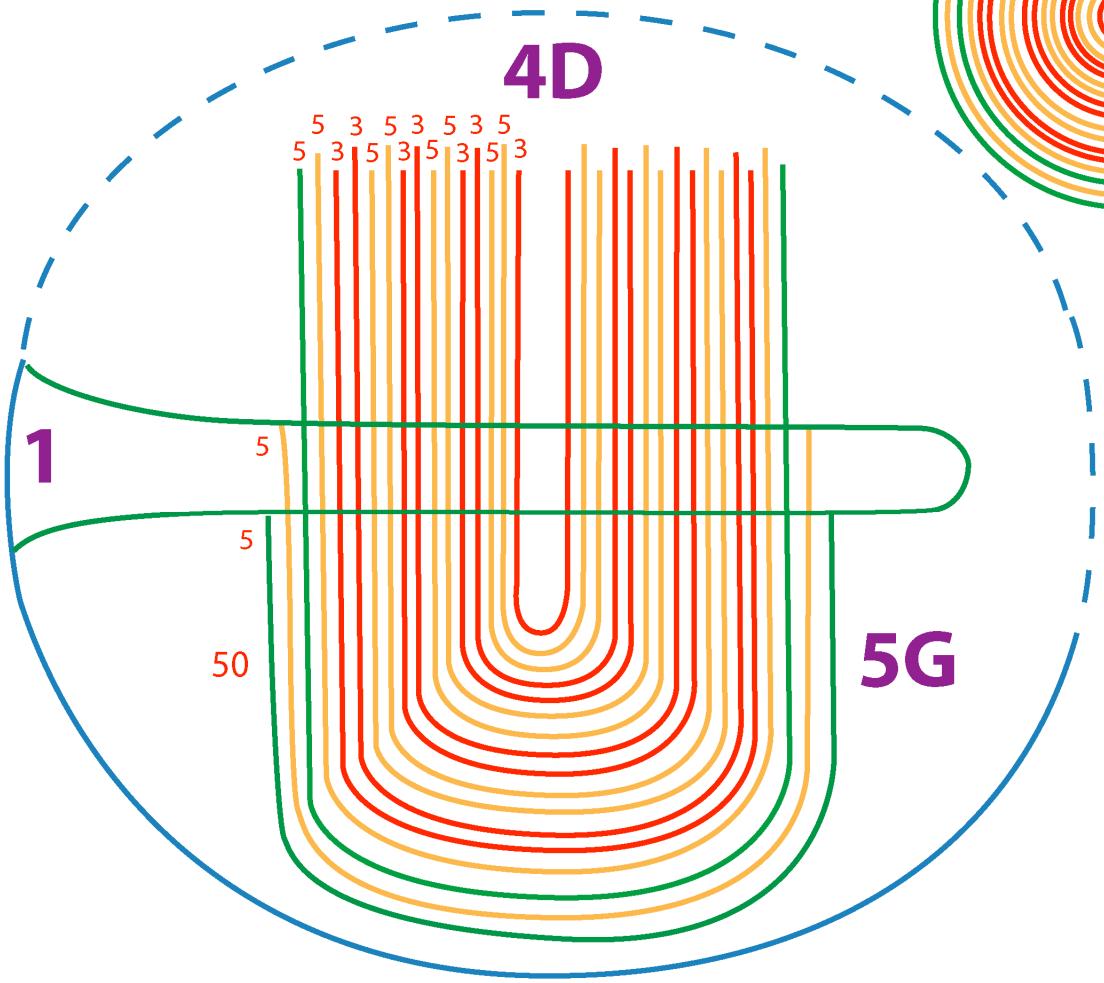
Holon **Yang** Value Scale:

Inside holon: 50 points
Outside holon: 25 points
Per Yang-orgin layer: 5 pts
Per Pure membrane layer: 3 pts
Per Yin-origin layer: 1 pt
Per Self-Pelastration: 3 pts

PiD SET	REF.: 5G	ACTION	Yang Value
		4D -> 1	121
CATALAN LEVEL : 5	# Layers in Holon: 17		

Transverse Cut





REMARKS: THIS IS ONE OF THE FOURTEEN POSSIBLE HOLONS ON THE PURE INSIDE ON LEVEL 5.

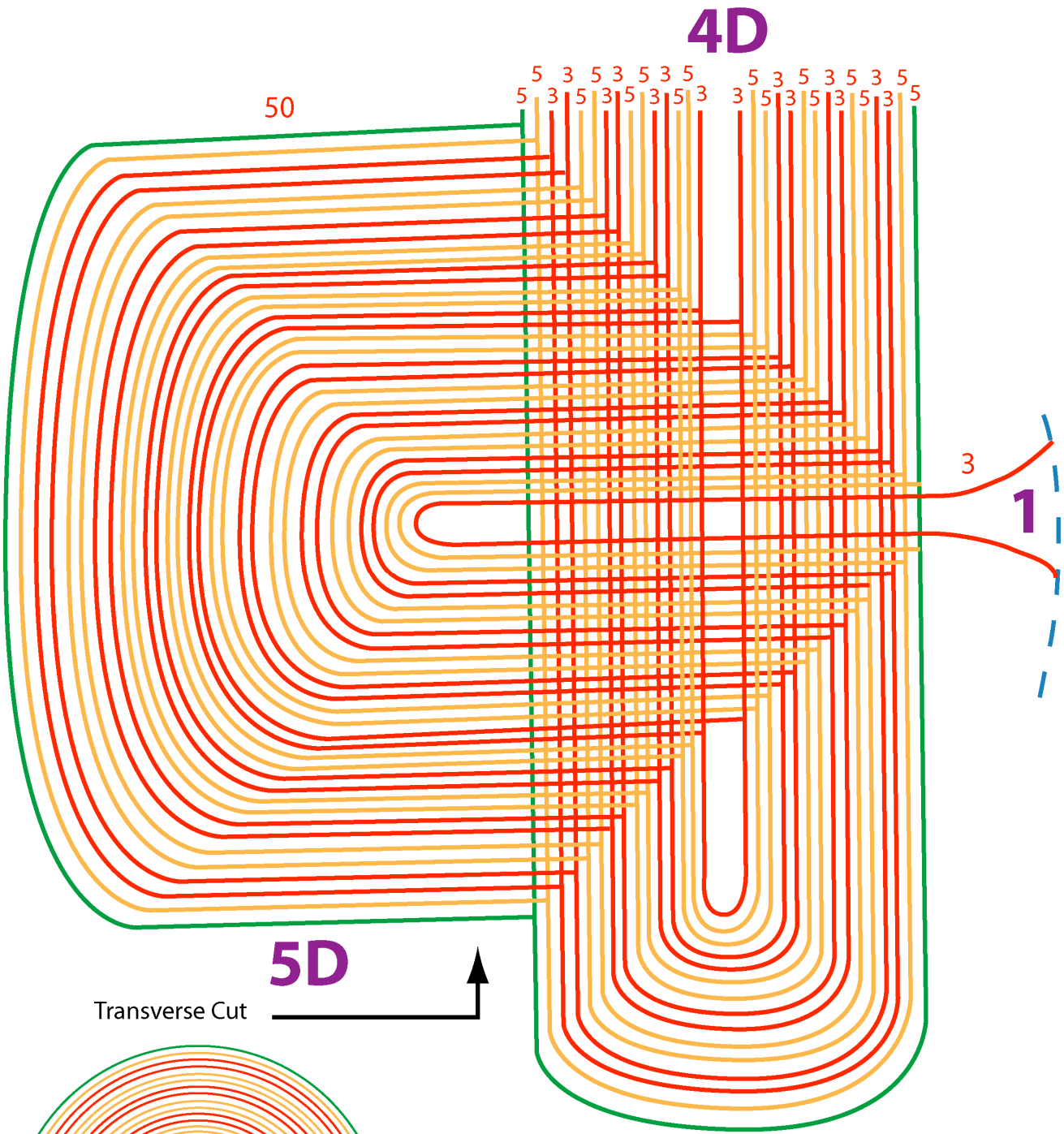
AN IDENTICAL HOLON CAN BE ON THE OUTSIDE OF THE MEMBRANE (in the PoD-Set)
That PoD holon 5G will have a Yang value of 56.

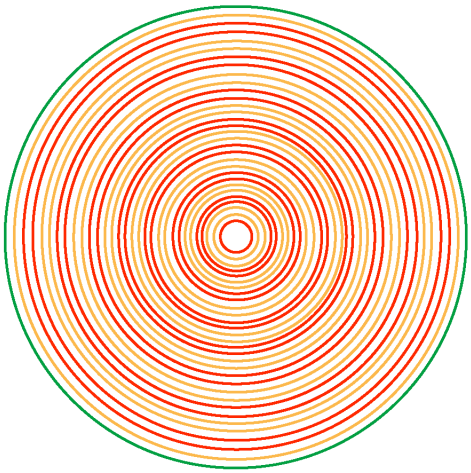
Legend:
BLUE: NON-BREAKABLE SPACE-TIME MEMBRANE
RED : ACTIVE PART (Backbone, Center, Pushing, Yang)
GREEN : PASSIVE PART (Appearance, Outside, Yin)
ORANGE : PASSIVE PART (Encapsuled Green)
Colors are just indications. All should be blue since all is the same membrane.

Holon **Yang** Value Scale:

Inside holon: 50 points
Outside holon: 25 points
Per Yang-orgin layer: 5 pts
Per Pure membrane layer: 3 pts
Per Yin-origin layer: 1 pt
Per Self-Pelastration: 3 pts

PiD SET	REF.: 5H	ACTION	Yang Value
		1 -> 4D	175
CATALAN LEVEL : 5	# Layers in Holon: 31		



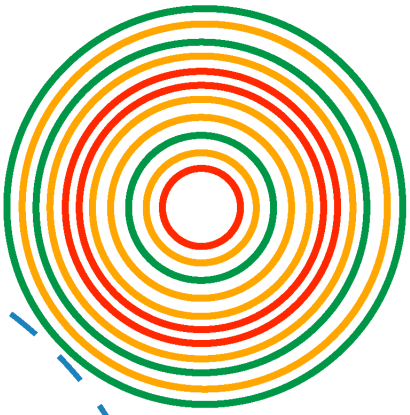


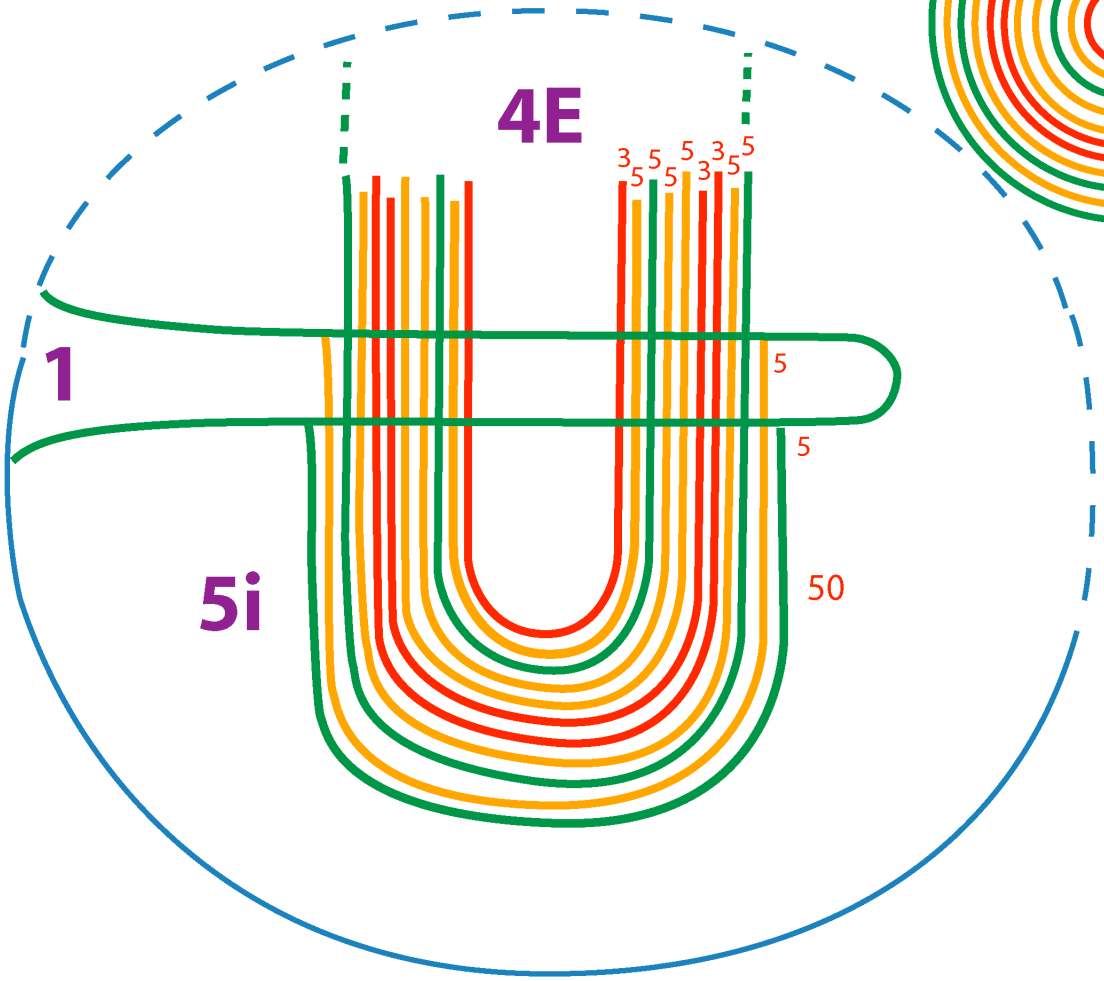
REMARKS: THIS IS ONE OF THE FOURTEEN POSSIBLE HOLONS ON THE PURE INSIDE ON LEVEL 5.
This is the most Yang of the holons descending from 3B (1 -> 2*), and of all holons till level 5 .

AN IDENTICAL HOLON CAN BE ON THE OUTSIDE OF THE MEMBRANE (in the PoD-Set)
That PoD holon 5H will have a Yang value of 83.

PiD SET	REF.: 5i	ACTION	Yang Value
		4E -> 1	99
CATALAN LEVEL : 5	# Layers in Holon: 11		

Transverse Cut





REMARKS: THIS IS ONE OF THE FOURTEEN POSSIBLE HOLONS ON THE PURE INSIDE ON LEVEL 5.
This inside parent 4E is the result of the Self-pelastration of 2*

AN IDENTICAL HOLON CAN BE ON THE OUTSIDE OF THE MEMBRANE (in the PoD-Set)
That PoD holon 5i will have a Yang value of 42.

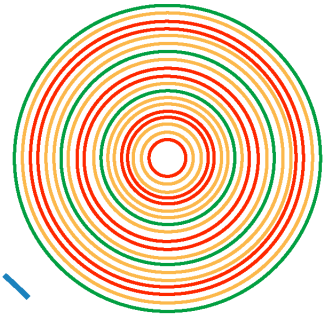
Legend:
BLUE: NON-BREAKABLE SPACE-TIME MEMBRANE
RED : ACTIVE PART (Backbone, Center, Pushing, Yang)
GREEN : PASSIVE PART (Appearance, Outside, Yin)
ORANGE : PASSIVE PART (Encapsuled Green)
Colors are just indications. All should be blue since all is the same membrane.

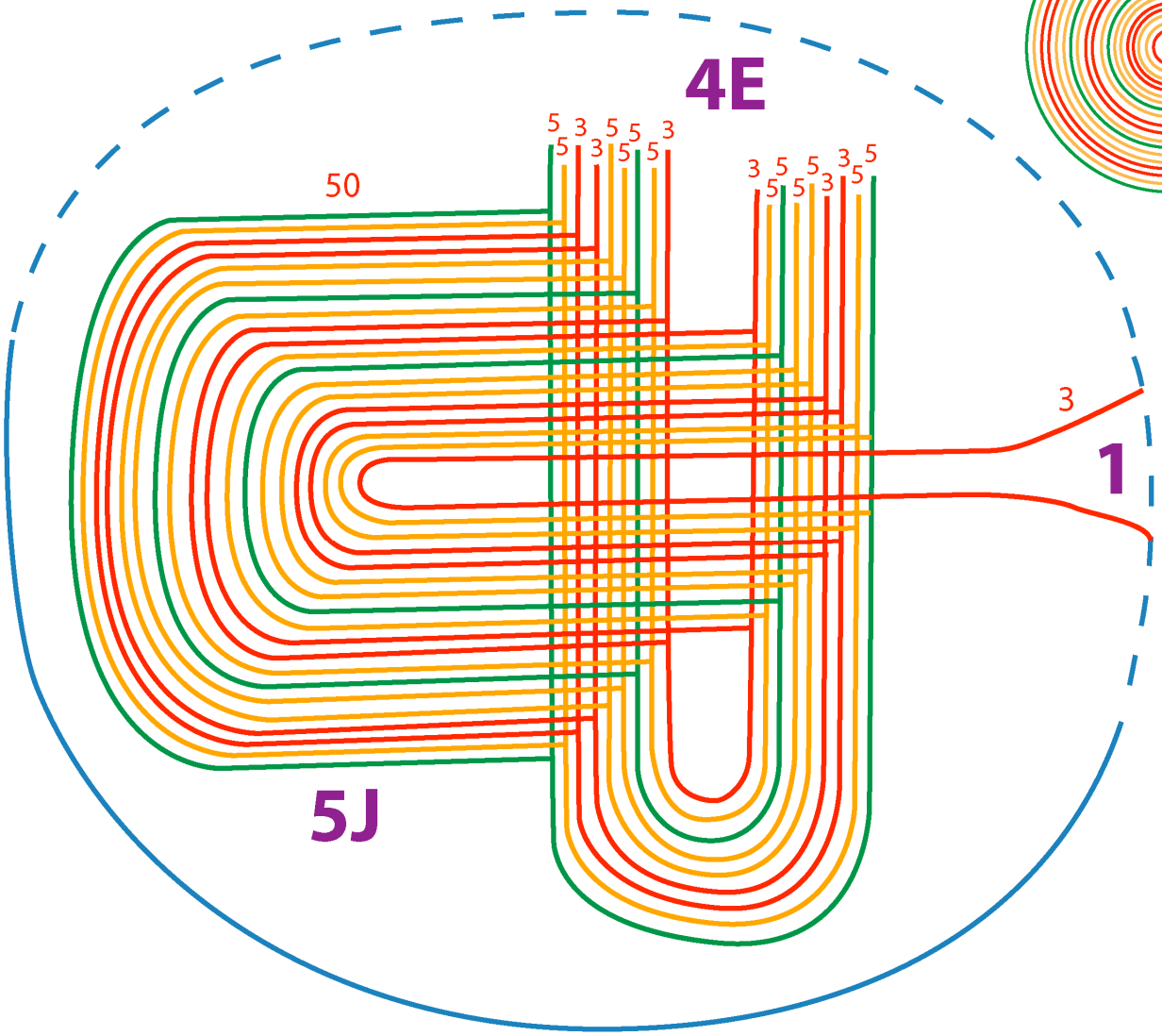
Holon **Yang** Value Scale:

Inside holon: 50 points
Outside holon: 25 points
Per Yang-orgin layer: 5 pts
Per Pure membrane layer: 3 pts
Per Yin-origin layer: 1 pt
Per Self-Pelastration: 3 pts

PiD SET	REF.: 5J	ACTION	Yang Value
		1 -> 4E	131
CATALAN LEVEL : 5	# Layers in Holon: 19		

Transverse Cut





REMARKS: THIS IS ONE OF THE FOURTEEN POSSIBLE HOLONS ON THE PURE INSIDE ON LEVEL 5.

AN IDENTICAL HOLON CAN BE ON THE OUTSIDE OF THE MEMBRANE (in the PoD-Set)
That PoD holon 5J will have a Yang value of 58.

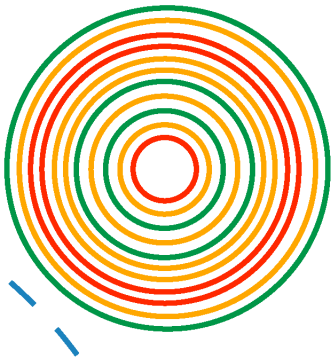
Legend:
BLUE: NON-BREAKABLE SPACE-TIME MEMBRANE
RED : ACTIVE PART (Backbone, Center, Pushing, Yang)
GREEN : PASSIVE PART (Appearance, Outside, Yin)
ORANGE : PASSIVE PART (Encapsuled Green)
Colors are just indications. All should be blue since all is the same membrane.

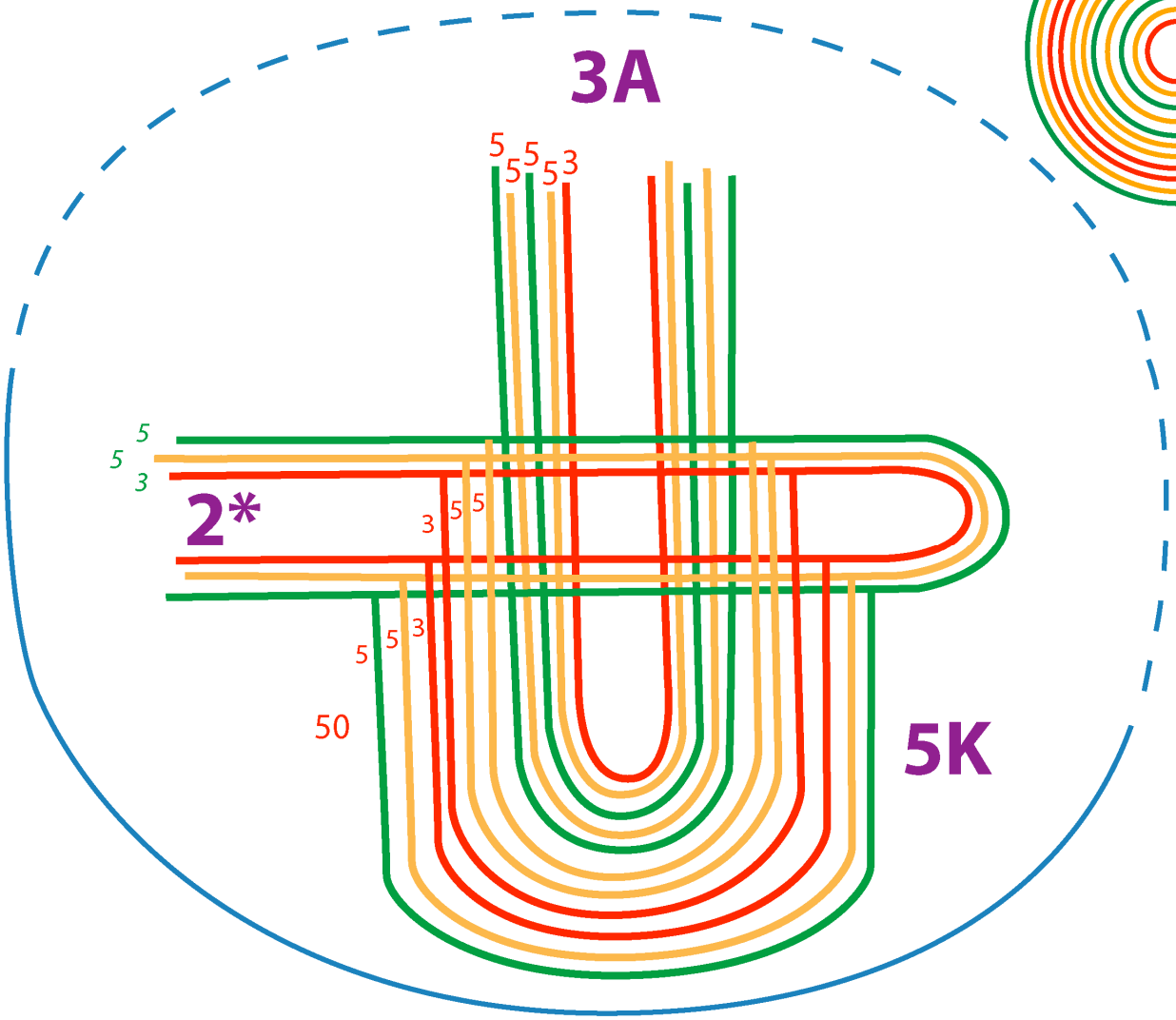
Holon **Yang** Value Scale:

Inside holon: 50 points
Outside holon: 25 points
Per Yang-orgin layer: 5 pts
Per Pure membrane layer: 3 pts
Per Yin-origin layer: 1 pt
Per Self-Pelastration: 3 pts

PiD SET	REF.: 5K	ACTION	Yang Value
		3A -> 2*	99
CATALAN LEVEL : 5	# Layers in Holon: 11		

Transverse Cut





REMARKS: THIS IS ONE OF THE FOURTEEN POSSIBLE HOLONS ON THE PURE INSIDE ON LEVEL 5.
THIS THE FIRST HOLON THAT IS CREATED BY COMBINATION OF TWO HOLONS.
THE PREVIOUS HOLONS WERE CREATED BY A COMBINATION OF HOLON + (PURE) MEMBRANE.

AN IDENTICAL HOLON CAN BE ON THE OUTSIDE OF THE MEMBRANE (in the PoD-Set)
That PoD holon 5K will have a Yang value of 42.

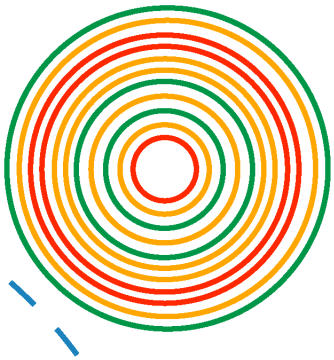
Legend:
BLUE: NON-BREAKABLE SPACE-TIME MEMBRANE
RED : ACTIVE PART (Backbone, Center, Pushing, Yang)
GREEN : PASSIVE PART (Appearance, Outside, Yin)
ORANGE : PASSIVE PART (Encapsuled Green)
Colors are just indications. All should be blue since all is the same membrane.

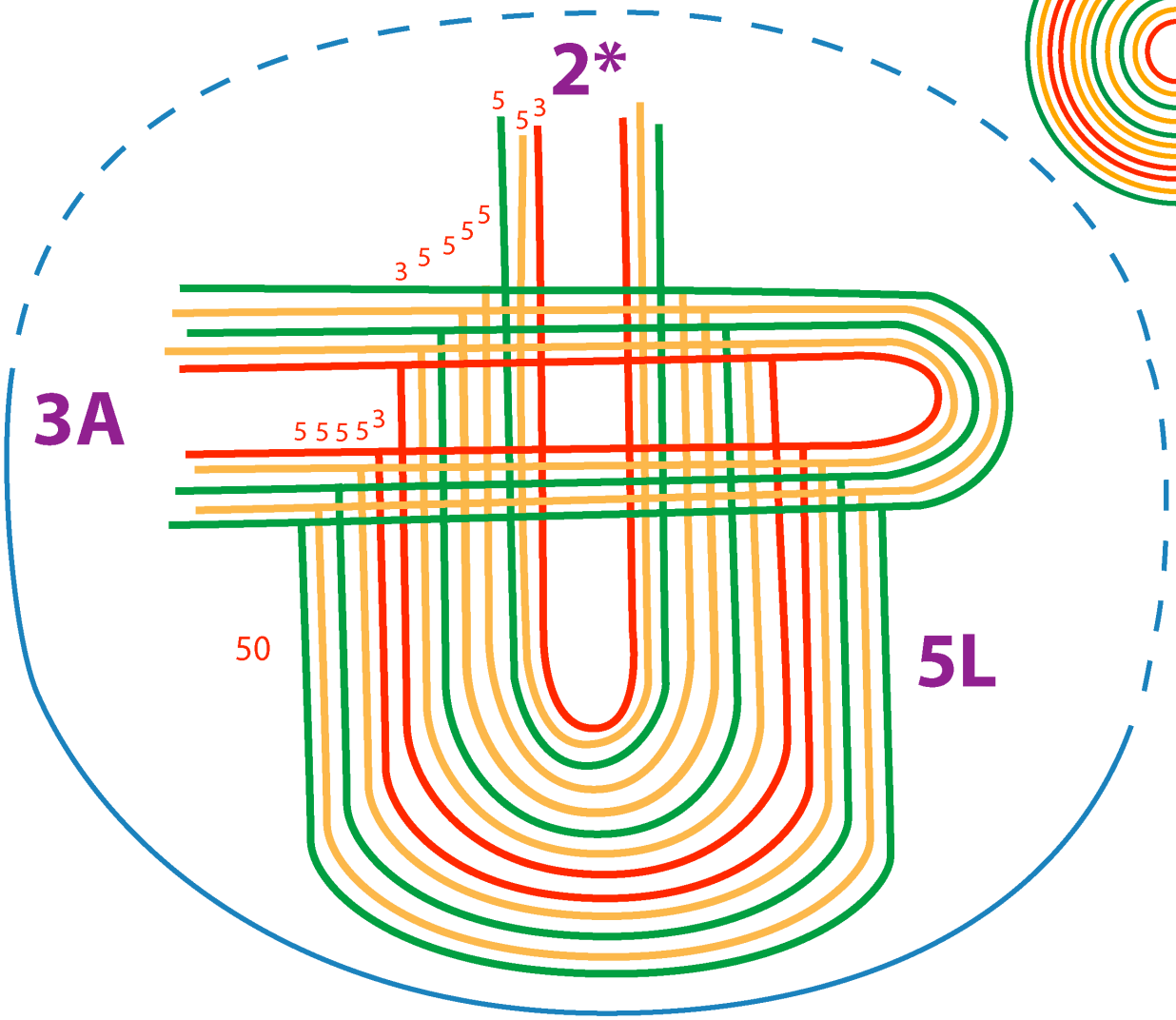
Holon **Yang** Value Scale:

Inside holon: 50 points
Outside holon: 25 points
Per Yang-orgin layer: 5 pts
Per Pure membrane layer: 3 pts
Per Yin-origin layer: 1 pt
Per Self-Pelastration: 3 pts

PiD SET	REF.: 5L	ACTION	Yang Value
		2* -> 3A	109
CATALAN LEVEL : 5	# Layers in Holon: 13		

Transverse Cut





REMARKS: THIS IS ONE OF THE FOURTEEN POSSIBLE HOLONS ON THE PURE INSIDE ON LEVEL 5.
THIS THE SECOND HOLON THAT IS CREATED BY COMBINATION OF TWO HOLON PARENTS.
THE PREVIOUS OTHER HOLONS WERE CREATED BY A COMBINATION OF HOLON + (PURE) MEMBRANE.

AN IDENTICAL HOLON CAN BE ON THE OUTSIDE OF THE MEMBRANE (in the PoD-Set)
That PoD holon 5K will have a Yang value of 44.

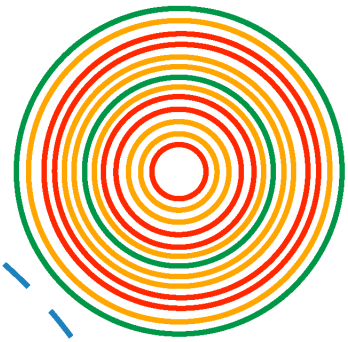
Legend:
BLUE: NON-BREAKABLE SPACE-TIME MEMBRANE
RED : ACTIVE PART (Backbone, Center, Pushing, Yang)
GREEN : PASSIVE PART (Appearance, Outside, Yin)
ORANGE : PASSIVE PART (Encapsuled Green)
Colors are just indications. All should be blue since all is the same membrane.

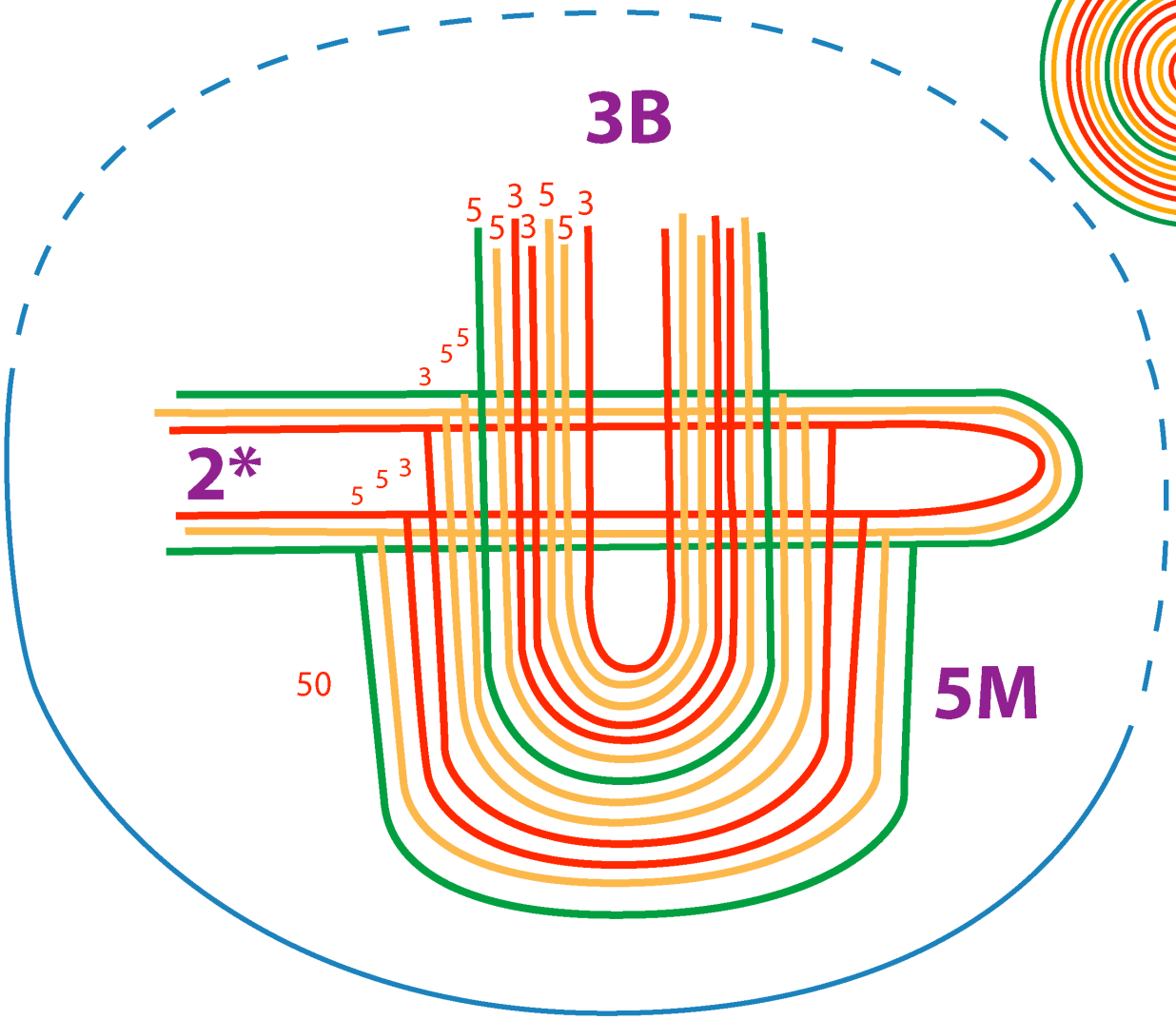
Holon **Yang** Value Scale:

Inside holon: 50 points
Outside holon: 25 points
Per Yang-orgin layer: 5 pts
Per Pure membrane layer: 3 pts
Per Yin-origin layer: 1 pt
Per Self-Pelastration: 3 pts

PiD SET	REF.: 5M	ACTION	Yang Value
		3B -> 2*	105
CATALAN LEVEL : 5	# Layers in Holon: 13		

Transverse Cut





REMARKS: THIS IS ONE OF THE FOURTEEN POSSIBLE HOLONS ON THE PURE INSIDE ON LEVEL 5.
THIS THE THIRD HOLON THAT IS CREATED BY COMBINATION OF TWO HOLONS.
MOST PREVIOUS HOLONS WERE CREATED BY A COMBINATION OF HOLON + (PURE) MEMBRANE (1).

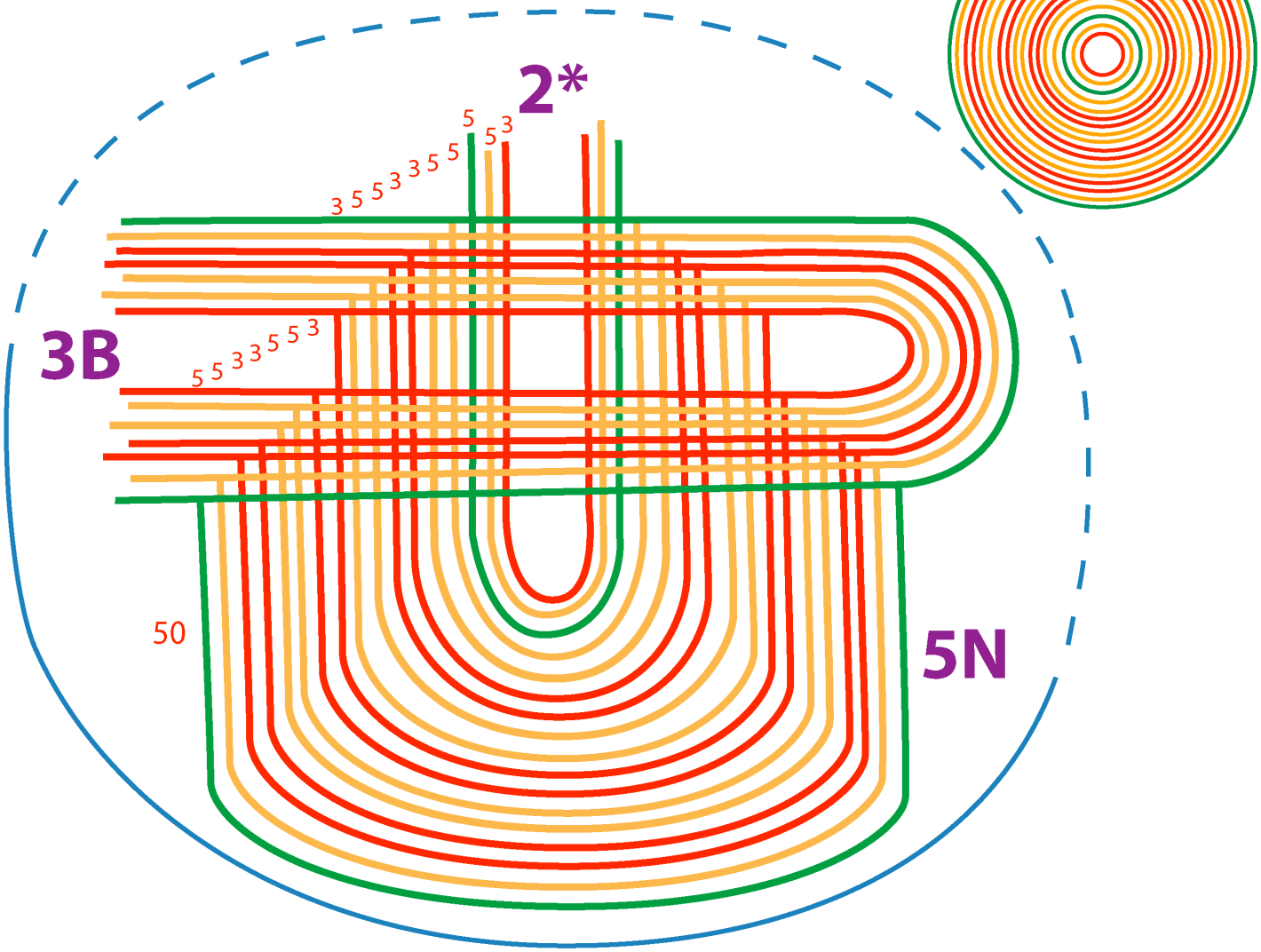
AN IDENTICAL HOLON CAN BE ON THE OUTSIDE OF THE MEMBRANE (in the PoD-Set)
That PoD holon 5M will have a Yang value of 48.

Holon **Yang** Value Scale:

Legend:	Holon **Yang** Value Scale:
BLUE: NON-BREAKABLE SPACE-TIME MEMBRANE RED : ACTIVE PART (Backbone, Center, Pushing, Yang) GREEN : PASSIVE PART (Appearance, Outside, Yin) ORANGE : PASSIVE PART (Encapsuled Green) Colors are just indications. All should be blue since all is the same membrane.	Inside holon: 50 points Outside holon: 25 points Per Yang-orgin layer: 5 pts Per Pure membrane layer: 3 pts Per Yin-origin layer: 1 pt Per Self-Pelastration: 3 pts

PiD SET	REF.: 5N	ACTION	Yang Value
		2* -> 3A	121
CATALAN LEVEL : 5	# Layers in Holon: 17		

Transverse Cut



REMARKS: THIS IS ONE OF THE FOURTEEN POSSIBLE HOLONS ON THE PURE INSIDE ON LEVEL 5.
THIS THE FORTH HOLON THAT IS CREATED BY COMBINATION OF TWO HOLON PARENTS.
THE PREVIOUS OTHER HOLONS WERE CREATED BY A COMBINATION OF HOLON + (PURE) MEMBRANE.

AN IDENTICAL HOLON CAN BE ON THE OUTSIDE OF THE MEMBRANE (in the PoD-Set)
That PoD holon 5N will have a Yang value of 56.

Legend:
BLUE: NON-BREAKABLE SPACE-TIME MEMBRANE
RED : ACTIVE PART (Backbone, Center, Pushing, Yang)
GREEN : PASSIVE PART (Appearance, Outside, Yin)
ORANGE : PASSIVE PART (Encapsuled Green)
Colors are just indications. All should be blue since all is the same membrane.

Holon **Yang** Value Scale:

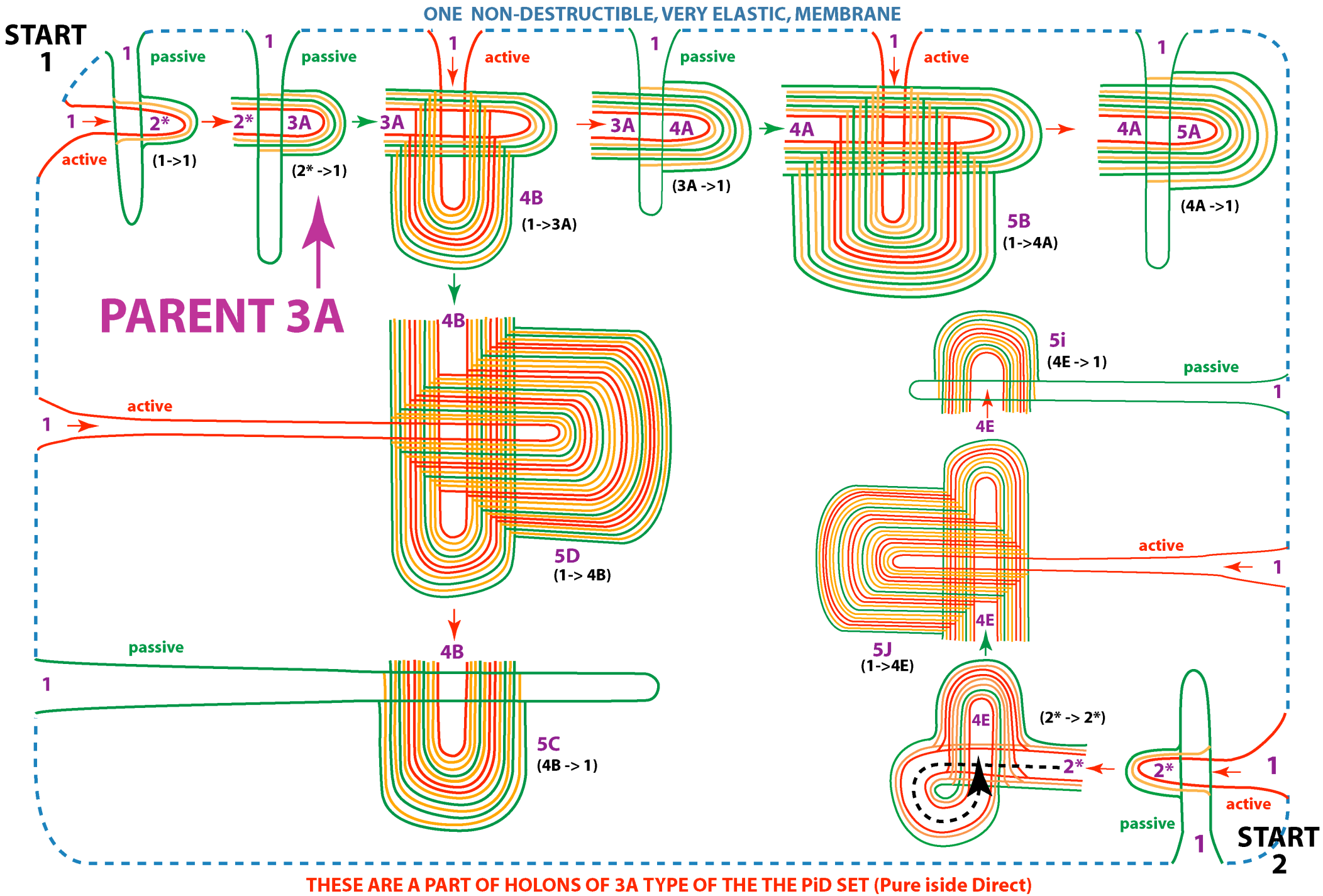
Inside holon: 50 points
Outside holon: 25 points
Per Yang-orgin layer: 5 pts
Per Pure membrane layer: 3 pts
Per Yin-origin layer: 1 pt
Per Self-Pelastration: 3 pts

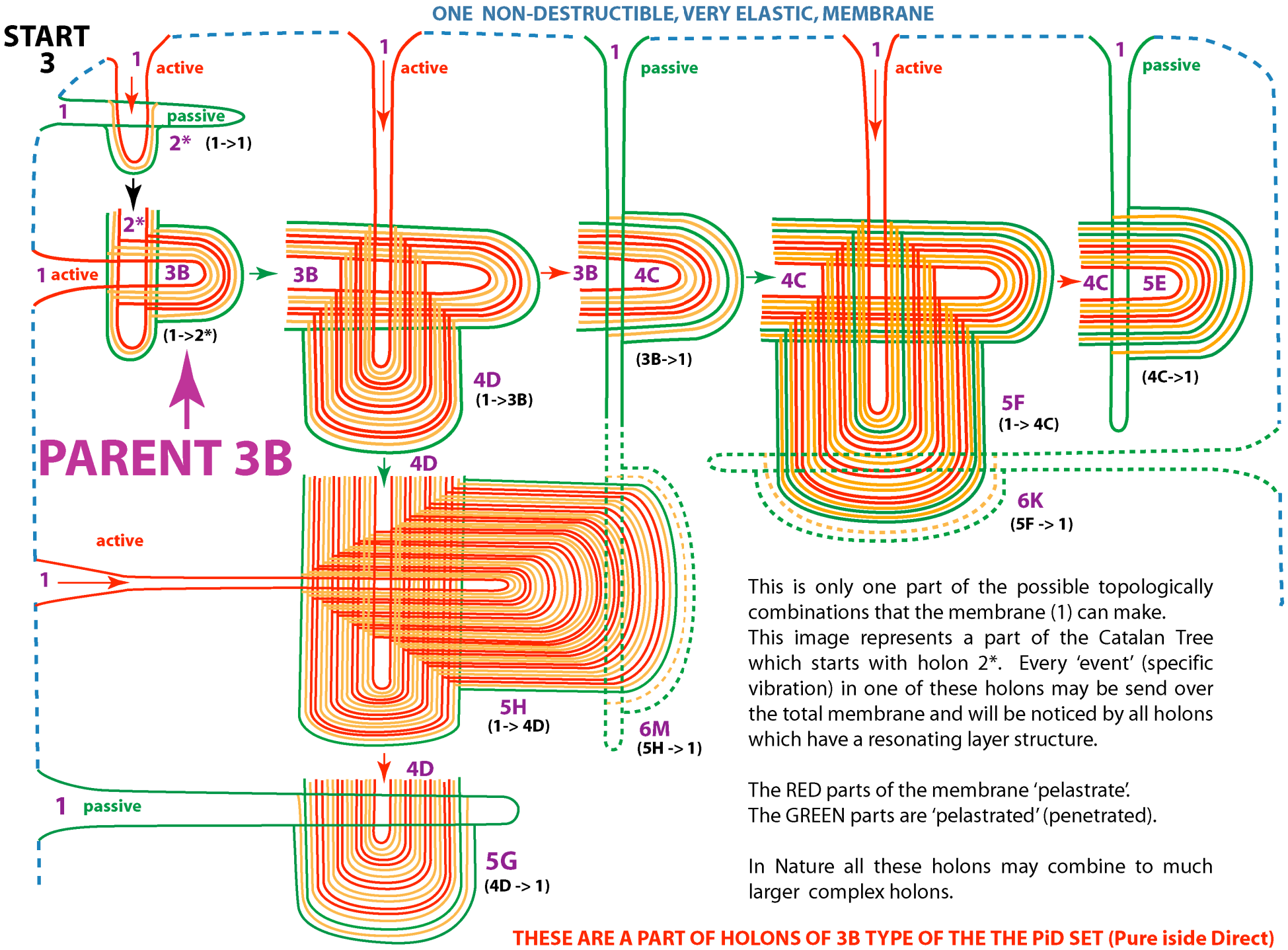
Catalan numbers and topological layers of the spacetime membrane.

The direction of the enfolding gives other combinations of layers (properties)

Legend: (x): means the number of layers in a holon
-> : means the direction of penetration
(i.e. 1->3B : the basic membrane pelastrates holon 3B)
Third expression: the name of the holon (i.e. 2* or 5D)

1	(1)							0 (1) 1 (basic membrane)							
2	1							1 (3) 2*							
3	2	x->1 2*->1 (5) 3A						2				1->x 1->2* (7) 3B			
4	5	x->1 3A->1 (7) 4A		1->x 1->3A (11) 4B				x->x 2*->2* (9) 4E		x->1 3B->1 (9) 4C		1->x 1->3B (15) 4D			
5	14	x->1 4A->1 (9) 5A	1->x 1->4A (15) 5B	x->1 4B->1 (13) 5C	1->x 1->4B (23) 5D			x->1 4E->1 (11) 5i 1->x 1->4E (19) 5J		x->1 4C->1 (11) 5E	1->x 1->4C (19) 5F	x->1 4D->1 (17) 5G	1->x 1->4D (31) 5H		
		x->y 3A->2* (11) 5K			y->x 2*->3A (13) 5L					x->y 3B->2* (13) 5M			y->x 2*->3B (17) 5N		
6	42	x->1 5A->1 (11) 6A 1->x 1->5A (19) 6B	5B->1 (17) 6C 1->5B (31) 6D	5C->1 (15) 6E 1->5C (27) 6F	5D->1 (25) 6G 1->5D (47) 6H			5i->1 (13) 6Q 1->5i (23) 6R 5J->1 (21) 6S 1->5J (39) 6T		5E->1 (13) 6i 1->5E (23) 6J	5F->1 (21) 6K 1->5F (39) 6L	5G->1 (19) 6M 1->5G (35) 6N	5H->1 (33) 6O 1->5H (63) 6P		
		5K->1 (13) 6U 1->5K (23) 6V			5L->1 (15) 6W 1->5L (27) 6X					5M->1 (15) 6Y 1->5M (27) 6Z			5N->1 (19) 6AA 1->5N (35) 6AB		
		4A->2* (13) 6AC	2*->4A (17) 6AD	4B->2* (17) 6AE	2*->4B (25) 6AF			4E->2* (15) 6AK 2*->4E (21) 6AL		4C->2* (15) 6AG	2*->4C (21) 6AH	4D->2* (21) 6Ai	2*->4D (33) 6AJ		
		3A->3B (19) 6AN						3A->3A (15) 6AM 3B->3B (21) 6AO		3B->3A (17) 6AP					


ONE NON-DESTRUCTIBLE, VERY ELASTIC, MEMBRANE
START 1
1
passive
2*
(1->1)
active
2*
3A
(2* ->1)
PARENT 3A
3A
4B
(1->3A)
3A
4A
(3A ->1)
4A
5B
(1->4A)
4A
5A
(4A ->1)
4B
5D
(1-> 4B)
active
passive
4B
5C
(4B -> 1)
5i
(4E -> 1)
4E
5J
(1->4E)
(2* -> 2*)
START 2
THESE ARE A PART OF HOLONS OF 3A TYPE OF THE THE PiD SET (Pure iside Direct)

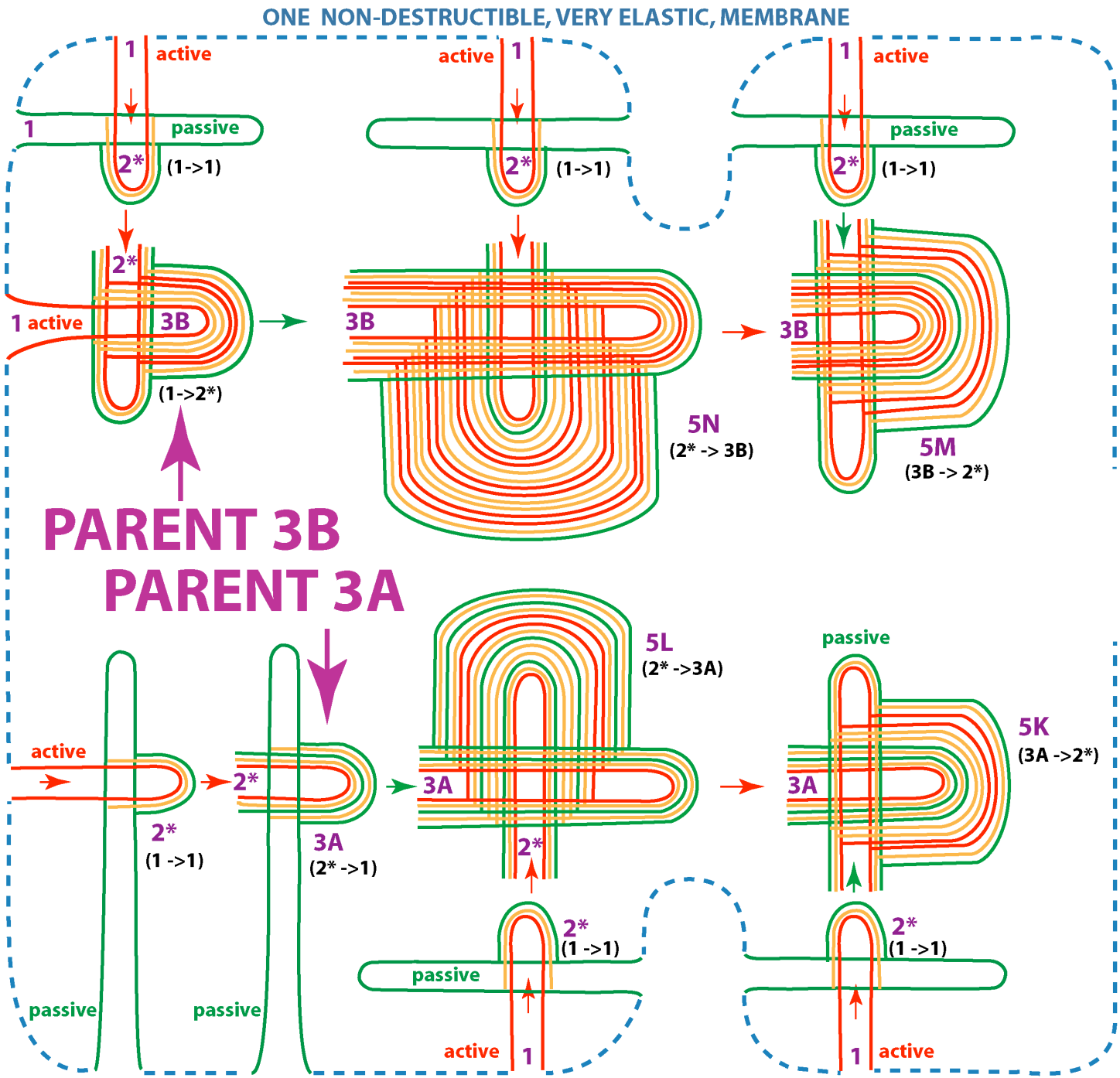


This is only one part of the possible topologically combinations that the membrane (1) can make.
This image represents a part of the Catalan Tree which starts with holon 2*. Every 'event' (specific vibration) in one of these holons may be send over the total membrane and will be noticed by all holons which have a resonating layer structure.

The RED parts of the membrane 'pelastrate'.
The GREEN parts are 'pelastrated' (penetrated).

In Nature all these holons may combine to much larger complex holons.

THESE ARE A PART OF HOLONS OF 3B TYPE OF THE THE PiD SET (Pure iside Direct)



THE IMAGES ON THIS PAGE SHOW HOW THE HOLONS 5K, 5L, 5M and 5N ARE BUILD FROM HOLON COMBINATION OF THE PARENT HOLONS 2* AND 3A OR 3B

THESE ARE A PART OF HOLONS OF 3A TYPE AND TYPE 3B OF THE THE PiD SET (Pure iside Direct)